GFS CHEMICALS®

PRODUCT CATALOG

Specialty Chemical Manufacturing Since 1928

Terms of Service

GFS Warranty
GFS products are warranted to conform, on the date of shipment, to the GFS specifications in effect at the time of product manufacture. The GFS warranty obligation is limited to either replacement of non-conforming product or the refund of the purchase price. GFS products are not certified for or intended for direct use in food, drug, or cosmetic applications.- Any other warranties, express or implied, that assume merchantability or fitness for a particular purpose are disclaimed. Under no circumstances shall GFS Chemicals, Inc. be liable for indirect, secondary, or consequential damages of any nature, including without limitation loss of profits or business interruption.

Limitation on GFS Product Use, Warranties and Liability
Unless otherwise specifically certified in writing by the President of GFS Chemicals, Inc. (GFS), GFS products are not intended, approved or authorized for human or animal consumption nor for direct use in any food, drug or cosmetic applications. GFS products are warranted to meet our specifications as set forth in the GFS Lot Analysis or other Company literature specifically relating thereto only. By accepting GFS' products, Customer agrees to the limitations set forth herein, assumes all responsibility for the proper use of such products in accordance with these limitations, and agrees to indemnify, defend and hold harmless GFS from and against any and all claims, suits and/or liability in the event such products are used in a manner contrary to these limitations. GFS HEREBY DISCLAIMS ANY AND ALL WARRANTIES, LIABILITY AND/OR RESPONSIBILITY IN CONNECTION WITH ANY USE OR APPLICATION OF ITS PRODUCTS IN A MANNER CONTRARY TO THE LIMITATIONS SET FORTH HEREIN AND/OR SOLD AS REPACKED COMPANY BRANDED MATERIALS TO THIRD PARTIES. ANY USE OR APPLICATION OF GFS PRODUCTS IN A MANNER CONTRARY TO THESE LIMITATIONS SHALL BE AT THE USER'S SOLE RISK, AND SHALL RELIEVE GFS OF ALL WARRANTIES, LIABILITY AND RESPONSIBILITY WITH RESPECT THERETO. These limitations may not be modified, affected or superseded by Customer, nor by any language, term or provision contained in Customer's purchase order, confirmation or other correspondence or communication. ONLY THE PRESIDENT OF GFS CHEMICALS MAY ALTER GFS STANDARD TERMS AND CONDITIONS. RELIANCE ON CONTRADICTORY STATEMENTS, WHETHER VERBAL OR WRITTEN, BY NON-AUTHORIZED GFS EMPLOYEES THAT WOULD ALTER THESE STANDARD GFS TERMS AND CONDITIONS IS STRICTLY PROHIBITED.

Use of Products and Information
GFS Chemicals, Inc. offers technical information and products for use by qualified technicians capable of understanding and communicating their respective hazards. Any recommendations or suggestions are made without warranty or guaranty of any kind. GFS assumes no responsibility connected with the use of our products or print information of any kind. In no case is the purchase of GFS products to be taken as a license to violate or infringe upon any patent.

Prices and Terms
All prices listed in this catalog are net consumer prices. Terms of sale are net 30 days with established credit, FOB our plant in Columbus, Ohio. Unless otherwise instructed, freight charges will be either prepaid and invoiced to the customer or COD at the discretion of the Company. We reserve the right to make price changes without formal notice. GFS is proud to offer the following credit card options for your convenience: Visa, Mastercard, American Express.

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GFS Chemicals behaves like three unique companies, with unique technologies and customers united by our manufacturing heritage.

GFS is your full service partner in the development of reagents, catalysts and intermediates dedicated to optimizing your chemical development and processing operations. We support bulk, pilot and research-scale projects with unmatched batch-to-batch consistency and service. Ask us how we can serve the unique needs of your industry.

RESEARCH AND ANALYTICAL CHEMICALS DIVISION

Analytical reagents, solutions and reference materials in small to intermediate quantities.

INORGANIC PROCESS CHEMICALS DIVISION

Pure and dry inorganic chemicals manufactured to customer specifications.

ORGANIC INTERMEDIATES DIVISION

A wide range of synthetic methodologies to support research through commercial project needs.

Together we do great things

For decades we have offered grams to metric tons to meet our customers' need for quality products at an exceptional value.

GFS Chemicals behaves like three chemical companies in one. Our core chemistries fall in three basic disciplines - Organic, Inorganic and Analytical Reagents.
We have expertise in each, and are organized as business units to service customers efficiently. We share many common services among disciplines and there is constant communication among them.

Membranes, not walls

We don't isolate customer needs. We share support, information technology, and knowledge freely among the divisions. If one division can help another with a solution, walls don't stand in the way. We have "membranes", allowing us to collaborate to solve problems. This is a key benefit to working with us.

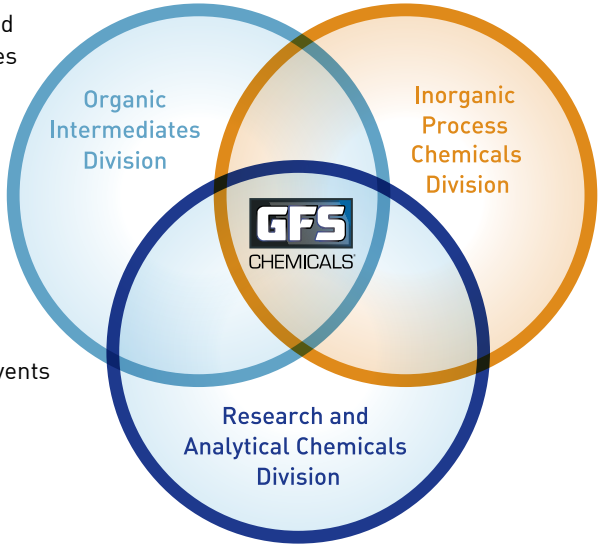
Specialty Alkynes & Olefins

Grignard Reagents

–BOC, -TMS & -THP Protected multi-functional Intermediates

Unsaturated Amines & heteroaromatics

Halogenated compounds



Rare Earth Salts & Solutions

High Purity Inorganics

Anhydrous Bulk Salts

Perchloric Acid & Perchlorate Compounds

Precious and Heavy Metal Compounds

High Purity Acids and Solvents

Karl Fischer Reagents

Inorganic Salts

Custom Solutions

Primary Standards

Ready and Waiting

For years, GFS has been at the forefront in reporting trace level impurities, including heavy metals, in our products. As an active participant on the ACS Reagents Committee for over 30 years, we have long recognized the importance of providing more than the minimum required. Also, our involvement supporting many industries such as pharmaceutical, electronics and power storage, has given us a global perspective on the transformation of expectations in this area.

While the American Chemical Society is close to instituting new test methods for ACS Reagent Grade materials (ACS Reagent Chemicals, 11th Edition),

GFS is not only prepared for the change from testing heavy metals using sulfide precipitation represented on "as Pb" (Lead) basis to testing by ICP-OES but has utilized this approach for almost a decade.

We perform full ICP scans for more than 60 elements, including heavy metals, for the entire spectrum of grades for many materials. This capability provides feedback on the trace levels of individual constituents, for each item, whether those levels are reported or not. This approach is the cornerstone for producing materials where reproducibility and reporting accuracies are critical to our customers and their applications.

Please visit our website for your copy of the existing and new testing protocols being adopted.

Great Relationships are Built on Great Chemistry

It's a simple equation: quality chemistry + great service = a partner you can count on. We're a family-owned, Ohio-based business delivering quality chemical products to U.S. and International manufacturers and researchers for more than 85 years. We're not just looking for clients. We want to build a long-term relationship around your needs and business goals. Here's what you can expect with GFS:

- Personalized service: you'll like our people!
- Technical assistance readily available
- 90% of catalog items in-stock will ship within 48 hours
- ISO-9001:2008 certified and ISO 17025 accredited for testing methods utilized on GFS Standards and Reference Materials
- Speedy turnaround of your quote requests, by a dedicated contact person
- Thorough and well-thought-out custom quotes for process chemicals
- Competitive pricing; volume discounts available
- Proactive and regular updates on your orders
- Complete order history available online at MYGFSChemicals
- No additional hazard fees applied to the cost of your shipment
- Major credit cards accepted: MasterCard, Visa, American Express
- Order by web, phone, fax, or e-mail

Call us at 800-858-9682 and tell us how we can help you.

We don't just make chemicals. We solve problems.

Let our chemical manufacturing expertise enhance your competitive advantage in a tough market. We work with companies to innovate and achieve commercial success through the manufacture of high-performance materials, additives and expert advisory and consulting services. We don't just sell chemicals; we solve problems and deliver solutions, leveraging nearly one hundred years of applied chemical technology to help our customers commercialize their products profitably. Whether you are part of a small company or a Fortune 500 organization, we value your relationship and want to serve your long-term needs for analytical and specialty chemicals.

History

GFS Chemicals began when Professor G. Frederick Smith started producing perchloric acid and its salts in a small factory in Columbus, Ohio. Since then, GFS has grown to become a leading producer of specialty chemicals with performance-proven technologies for laboratory, analytical, scientific, research and development, pilot scale production, and manufacturing applications.

The GFS Advantage

When you come to GFS, you know exactly what you're getting: a long-term partner who listens to your business priorities and develops products and processes around your needs.

- **Consistency:** We perform batch manufacturing to ISO standards and detailed customer specifications for unparalleled batch-to-batch consistency.
- **Continuity:** Ensured by our longevity in the chemical industry and our team's years of industry experience.
- **Manufacturing Experience:** Our production team of chemists, engineers and operators bring decades of experience in solving problems for industry.
- **Technical Know-How:** We've been perfecting our technology since 1928, and always stay at the leading edge of the industry.
- **Connectivity:** We have spent more than 85 years developing key relationships in academia and industry in 80 countries.
- **Supply Chain Stability:** We have worked hard to develop a deep and integrated supply chain throughout the world so we can deliver superior product quality, availability and price consistency.
- **Flexibility:** We'll make the products you want to the specifications you need.
- **Commitment:** As a privately held company with three generations of hands-on ownership, we invest with an eye on long-term returns. If you are willing to give us the business and it makes sense, we will invest in the technology needed for your project.

Vested in American Manufacturing: We are an Ohio Midwest manufacturer – central to all areas in the U.S. (1-5 days away from delivery in most cases). We embrace the values of hard work and initiative and are committed to advancing the interests of worldwide manufacturers.

GFS Around the World

Customers around the globe rely on GFS for our international knowledge and experience. GFS manufactures products for over 80 countries around the globe and we have distributors to service local needs. Our dedicated international department has over 20 years of knowledge of the import and export of chemicals. We will walk you through your order and paperwork step by step and will follow up on every detail necessary to get you the product on time.

Your GFS International department will provide one point of contact who understands your business needs. We process your quote inquiries and orders in a manner that is as friendly as it is efficient.

We handle both air and ocean shipments regularly and routinely. We never charge for standard export documentation as other companies might. We deliver:

- Warehouse stocking quantities for distributors
- REACH compliance
- Focused experts in international logistics and freight laws, licensed and certified by the US DOT
- Long-Term relationships with reliable freight forwarders
- Programs designed to control shipment of hazardous materials and drug precursors to qualified, legitimate customers
- Dedicated technical support for every major product line
- Dedicated sales and service staff for prompt e-mail and phone correspondence
- No unusual or hidden hazard fees or documentation costs
- ISO-9001:2008 certified and ISO 17025 accredited (for quality testing procedures on multiple product lines)

What's New at GFS?

At GFS, we are always striving for improvements to our knowledge, capacity and technical capabilities. Here are just a few of the improvements we're excited to share with you this year.

New Facilities

- 70,000 square foot GFS Analytical Operations Division
- Expanded Karl Fischer Manufacturing Area
- Expanded Break-bulk, Kitting, Packaging and Storage Facilities
- Expanded QC Laboratories
- New Office Space
- More docks for more outbound freight

New and Improved Products

- New Line of High Purity Solvents
- Specialty solutions for soils analysis
- High Purity Water production and bottle filling
- Expanded specifications for our High Purity Acids
- Achieved ISO 17025 Accreditation for several test methods-continually expanding scope

People

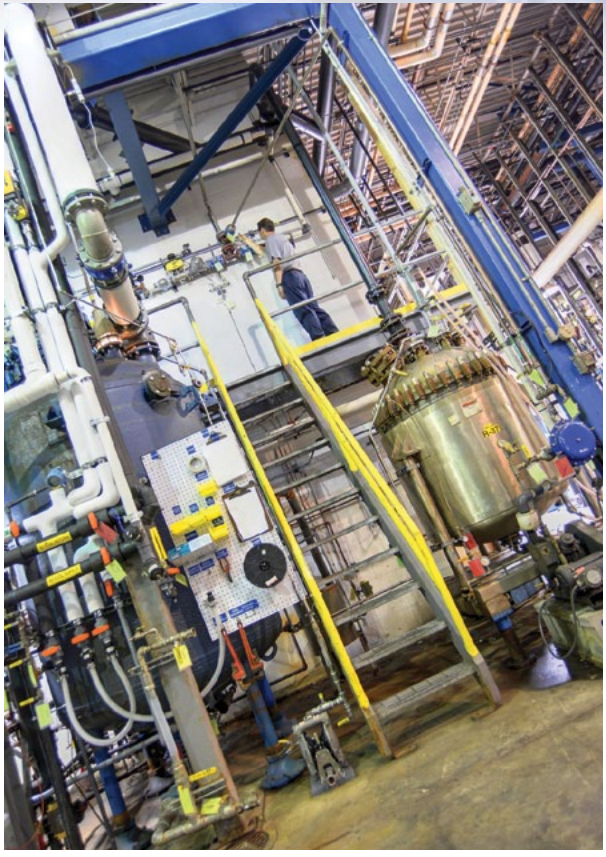
- Expanded sales and service staff
- Dedicated Product Manager
- Corporate QA Manager established

New Support

- Improved Website Design and Functionality
- New Packages and Label Designs

New to Manufacturing

- Integration of Honeywell® process automation controls
- Expanded technical staff (R&D Chemists, Engineering, Sales)
- Tripled Organic Intermediate Manufacturing capacity
- Added production staff to support multi-shift operations
- Expanded Perchloric Acid manufacturing operations and technology
- Enhanced and expanded fractional distillation capacity



GFS Chemicals - Organic Building Blocks and Beyond

At the heart of our organic manufacturing operations is a 14,000 ft^2 state-of-the-art production facility located in Columbus, Ohio. Equipped with Honeywell® process control automation throughout the facility, GFS supports a wide range of synthetic organic methodologies. Staffed with experienced operators and supported by a technical staff of chemists, our goal is to support our customers from initial project development through successful commercialization.

Common Core Organic Synthetic Methods Performed at GFS

- Acetylene Chemistry
- Halogenation
- Dehydrohalogenation
- Alkylation(NH3)
- Sonogashira Reactions
- Kumada Couplings
- Cadiot-Chodkiewicz
- Suzuki Coupling
- Cis & Trans Reductions
- Gabriel Synthesis
- Diels-Alder Synthesis
- Ethynylation
- Barbier Reaction
- Skraup Synthesis
- Birch Reduction
- Heck Reaction
- Grignard/Alkyl Lithium Synthesis
- Finklestein Reaction
- Phase Transfer

Kilo Lab Scale

- Glassware up to 72L scale
- Distillation support up to 50L scale
  - Short path
    - Bench Strip
- Rotary Evaporators
  - Long path
    - 18" to 48" packed columns
    - Stainless, Hastelloy, Ceramic packing

Pilot Scale

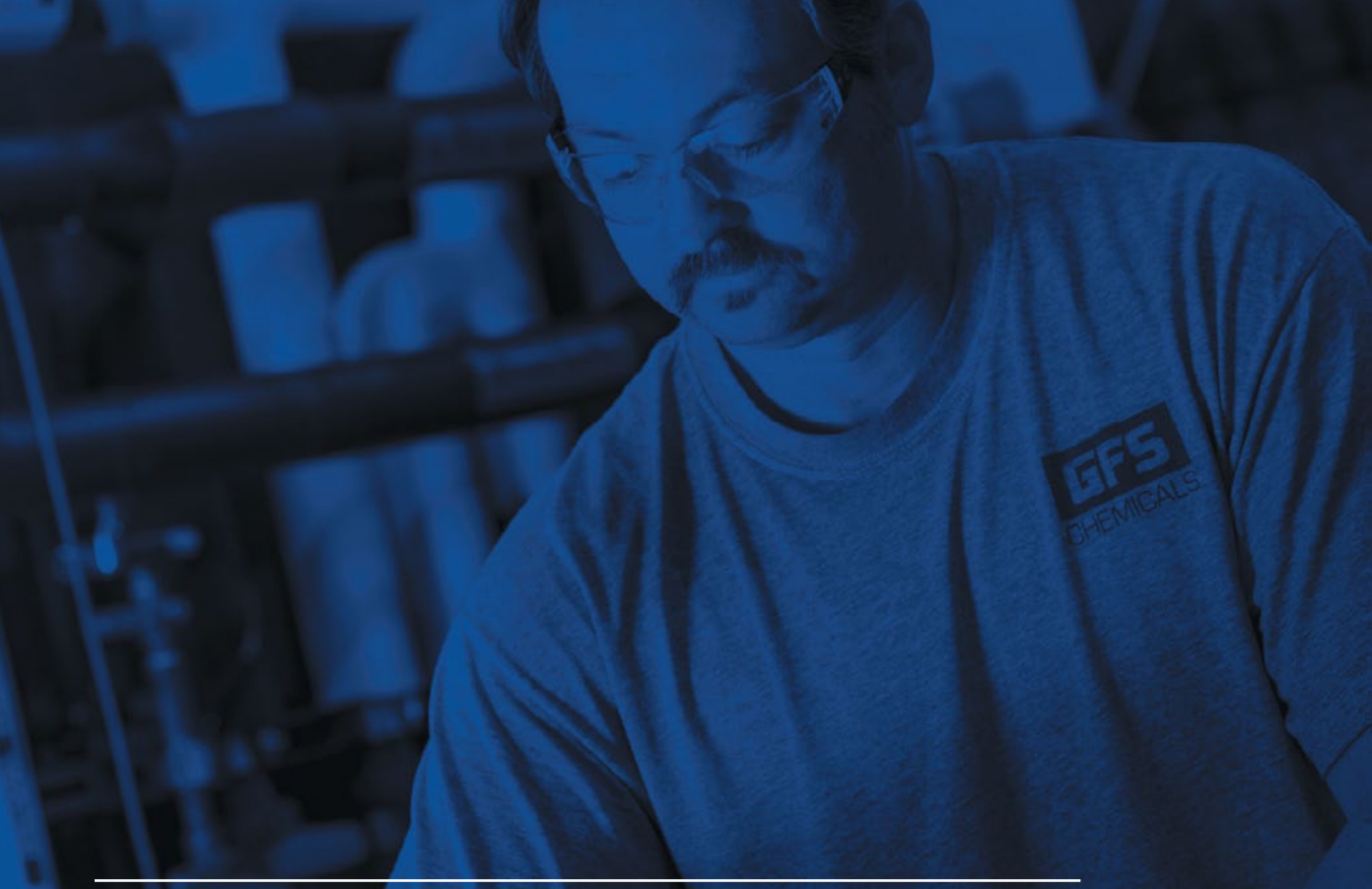
- 10 gal – 100 gal glass lined steel
- 10 gal – 200 gal Stainless
- Distillation Support
  - Rotary Evaporators
  - 30 gal – 50 gal glass lined steel
    - 4' to 12' columns
    - Glass & Hastelloy packing

Plant Scale

- 200-500 gal Hastelloy
- 100-1000 gal Glass
- 200-1000 gal Stainless
- Distillation support
  - Short path
    - 50 gal-1000 gal glass lined
  - Long path
    - 4' to 16' column
    - Hastelloy, packing
- Solids Handling
  - Hastelloy and Stainless centrifugation

Plant Scale Supports

- Vacuum capabilities to ≤ 10 Torr
- Pressure handled to ≤ 100 psi
- Reaction conditions controlled from -50°C to +240°C
- Distillation conditions controlled from 20°C to 250°C
- Scrubbing supports for acid/base, ammonia and sulfide
- Nitrogen used as inerting atmosphere



Organic Intermediates – Markets and Applications

Pharmaceutical Industry

GFS understands the demanding needs of the pharmaceutical industry, which is a major market segment for our business. We focus on:

- Batch processing to ensure reproducible product profiles.
- Optimization during development to minimize process changes.
- Supporting R&D through commercial volumes to ensure supply chain stability.
- Multi-functional small molecules as building blocks.
- HCl in IPA, propargylamine, 2-bromopropene and 2-butyn-1-ol and many related products for our Pharma customers.

Electronics Industry

GFS has a long history of high purity chemical manufacturing. We understand the impact trace metal or minor product impurities can have on such devices as Fuel Cells, OLEDs, SAW devices among others. We can:

- Support process change notification when requested.
- Establish product unique specifications to support sensitive materials.
- Control process variables to provide consistent purity profiles.
- Implement trace metal testing on organic compounds when required.
- Offer 3-3'-Dimethyl-1-butyne, dimethylamino trimethylsilane and m-diethynylbenzene and other specialty organics used in the industry.

Polymer Industry

GFS Chemicals products have been used as building blocks and intermediates for several high temperature and high performance polymers. They have also found applications in nano-technology.

- Conjugated diyne and conjugated ene-yne compounds.
- In-house development of phenylacetylene derivatives for polymers.

Flavors and Fragrances Industry

GFS Chemicals core products (alkynes & olefins) are a natural fit for flavor and fragrance building blocks. With a wide array of synthetic methodologies and a plant to support R&D needs as well as MT production this market is a natural fit for GFS.

- We offer the largest range of unsaturated esters, alcohols, ethers and aldehydes.
- Chemists on staff with industry knowledge and background.
- A wide range of chemistries and production capabilities, for molecule flexibility.
- Low temperature chemistry capabilities, for certain difficult functional groups.

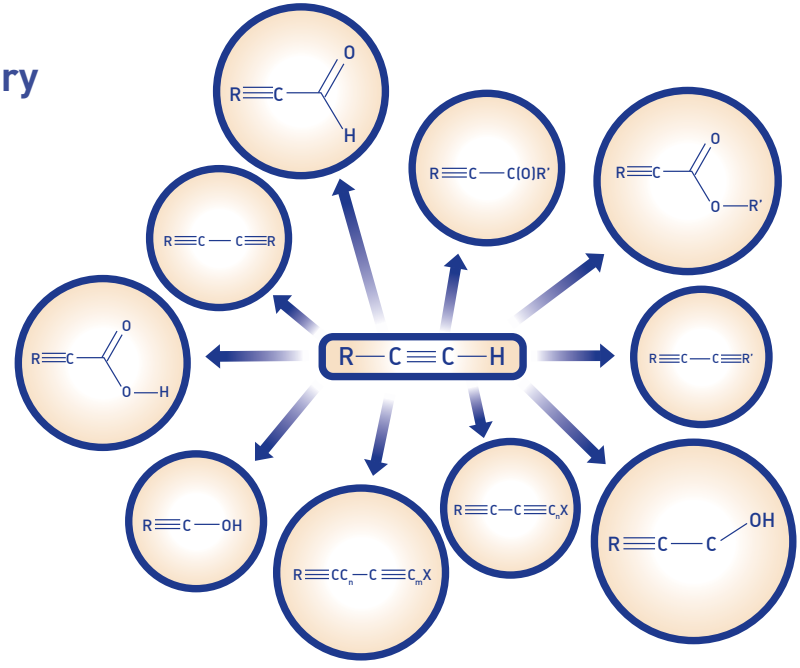
Agri-chemical and Pheromone Precursors

Our chemistry focus for agriculture and pheromone products is very similar to those of flavors and fragrances, so it is an excellent fit for our products and technical capabilities. GFS Chemicals is not a registered pesticide facility, but many of our customers utilize our products as intermediates for their active ingredients.

- We offer the largest range of unsaturated esters, alcohols, ethers and aldehydes.
- Unsaturated amines via modified Gabriel Synthesis are core building blocks.
- Functional group protection on multi-functional group compounds allows selective synthetic methods to be performed.
- Long chain alcohols, acetates and aldehydes are available.

Colors and Dyes Industry

GFS products and chemistries are finding new applications in functional dyes and colors. This is an area we will continue to expand in the future.

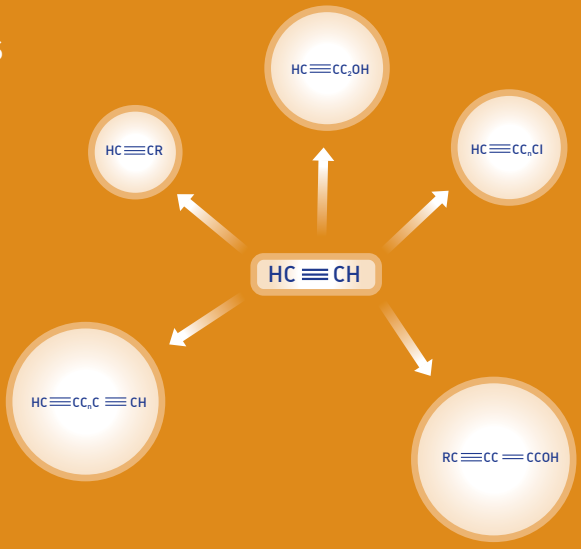


Acetylene Chemistry

GFS Chemicals manufactures the largest number of specialty acetylenic compounds available on the market today. Many aspects of "molecular construction" are dramatically enhanced through the use of both simple and multifunctional acetylenic building blocks. The GFS handbook, Reagents and Building Blocks for Modern Acetylene Chemistry, is a valuable resource which puts information on properties and availability of over 500 specialty and exotic acetylenic and olefinic compounds at every researcher's fingertips.

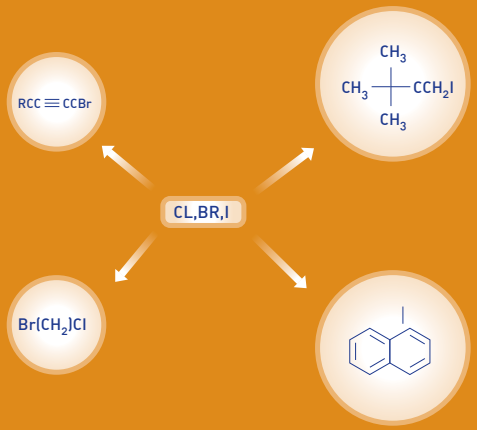
Core Synthetic Methodologies

- Sodium/Liquid Ammonia Chemistry
- Halogenation/
  Dehydrohalogenation Synthesis
- Sonogashira
- Glaser Coupling
- Cadiot-Chodkiewicz
- Pd, Cu, Ni and Zn Catalyzed
  Methodologies



Halogen Chemistry (Cl, Br, I)

The GFS Chemicals organic manufacturing facility is well equipped to handle most halogenated compounds and chemistries. Chlorine (Cl_2), Bromine (Br_2) and Iodine (I_2) are commonly handled in our facility as halogenating agents and catalysts for synthesis. We do not have Fluorine (F or HF) handling capability, however. Phosphorous tribromide, sodium iodide and thionyl chloride are also utilized as halogenating agents. These key halogens are critical because:



- Halogenation of alcohols supports our multi-functional molecule approach.
- Halocarbons are key backbones for chain lengthening synthesis.
- Halocarbons are precursors to our Grignard chemistry and logical intermediates for our specialty olefins and alkynes.
- Handling bulk bromine, chlorine and Iodine allows for support of commercial scale chemistry.

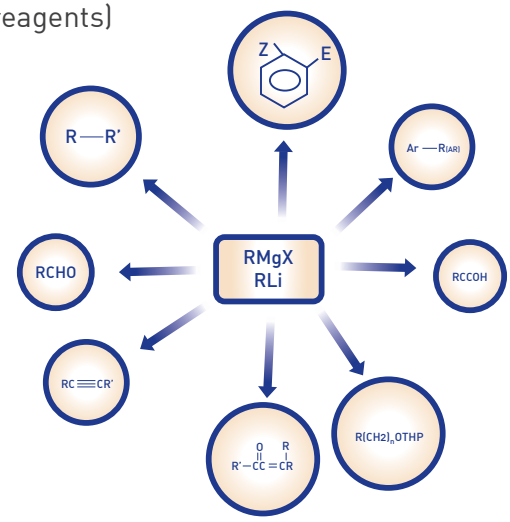
Grignards

GFS not only practices Grignard chemistry but we also produce specialty Grignard reagents for commercial needs. Many Grignard reagents are a logical extension of our existing product lines:

- Alkyl Grignards (t-butyl MgBr, Isopropyl MgCl, octyl MgCl)
- Alkynyl Grignards (ethynyl MgCl, propynyl MgBr, heptynyl MgCl)
- Olefinic Grignards (isopropenyl MgBr, Hexenyl MgBr, Octenyl MgCl)
- Aryl Grignards (phenyl MgCl, 4-benzyloxyphenyl MgBr, 4-chlorophenyl MgBr)

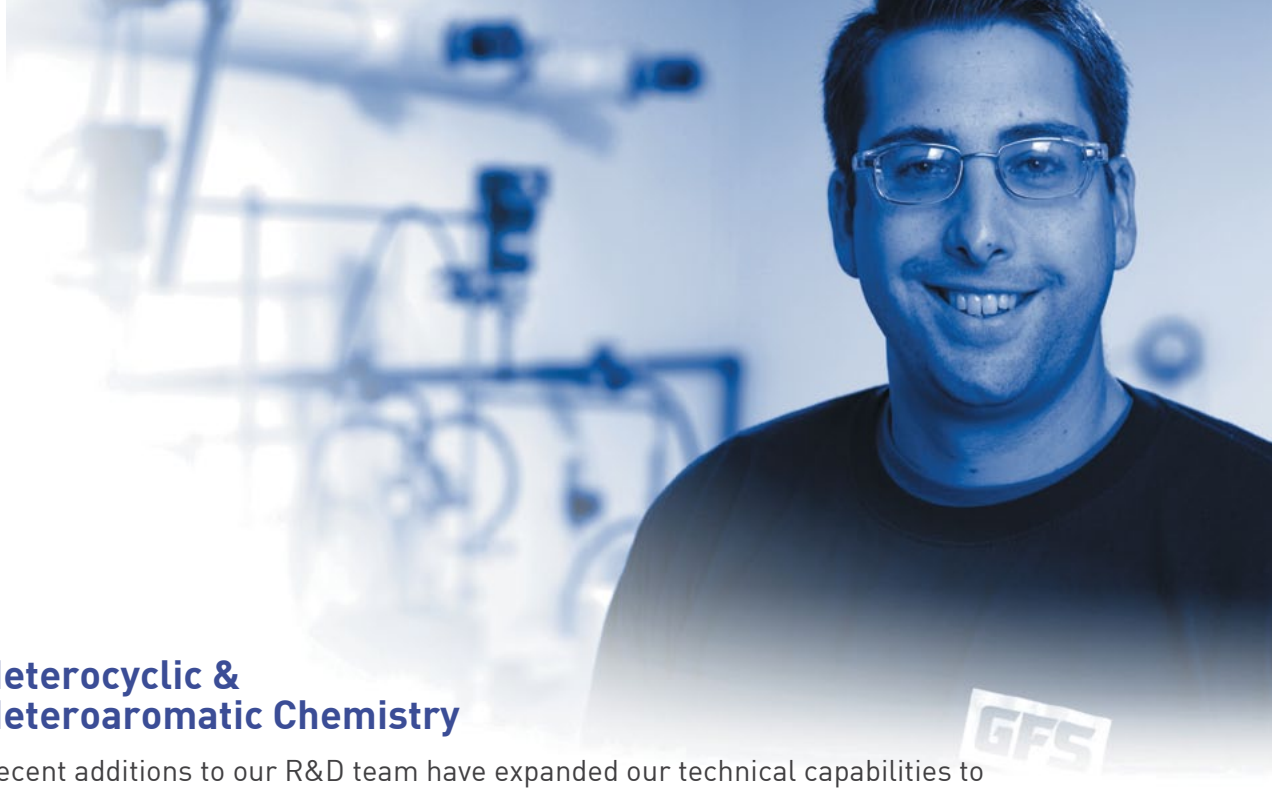
Organometallic Chemistry

Organometallic compounds provide a source of nucleophilic carbon atoms which can react with electrophilic carbon to form a new carbon-carbon bond. This is very important for the synthesis of complex molecules from simple starting materials. Organometallic compounds of Na, Li and Mg (Grignard reagents) are among the most important organic reagents.



Core Synthetic Methodologies

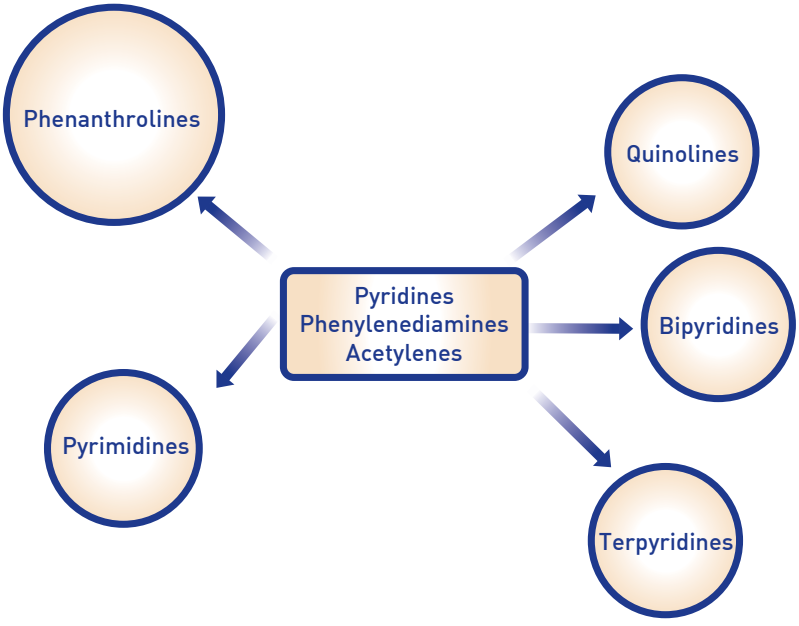
- Grignard Synthesis (see Grignard section)
- Alkyl Lithium Reactions
- Coupling (Suzuki, Stille, Negishi, Kumada)
- Heck Reaction
- LI/NA Amide
- Cis-reductions



Heterocyclic & Heteroaromatic Chemistry

Recent additions to our R&D team have expanded our technical capabilities to include heterocyclic and heteroaromatic product development. This is a growing market for us, and we are increasing our resources to support custom inquiries.

Over 15% of today's commercial chemistries are tied to alkynes by some method. Much of this includes the development of specialty heterocycles. We believe we have the ability to continue to advance this field.



Inorganic Chemical Manufacturing

A Proven Leader in Excellence and Innovation

For over 85 years, GFS has provided chemists and engineers of every industry with the quality and consistency that they require, delivering consistent products from lot to lot over extended periods of time – no surprises.

Aerospace: specialty chemicals for coatings, optics and propellants

Power Storage: specialty materials for battery electrolytes, fuel cells, solar cells and advanced energy research

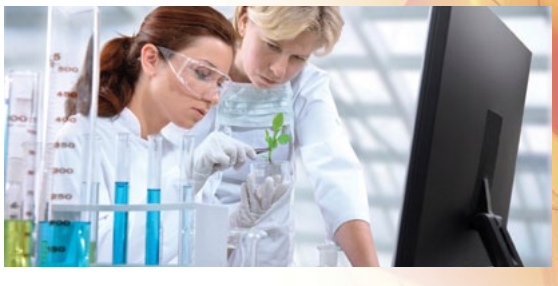
Pharmaceuticals: catalysts, oxidizers, desiccants, buffers, low-moisture salts and low-trace metal compounds

Electronics/Semiconductors: etchants, acids, photoresists, constituents for CMP slurries, dopants, polishes and thermal coatings

Automotive: specialty materials for propellants, initiators, coatings, anti-corrosives, fuel cell development and electrochromics

Petroleum: materials for catalysis, additives, drilling and emission control

Medical/Biomedical: advanced materials for imaging technologies and displays



Process Perfect: Tailored Specifications. Tailored Packaging. Tailored Service.

Is your supply chain full of vendors, or is it full of partners? GFS is most successful when our customers are successful. Our production facilities are flexible meet our customers' individual requirements. We have skilled staff in development, engineering, production, and quality to support your business for the long run. That's why GFS is the perfect partner for your most critical process needs.

Flexible Specifications: Our expertise in crystallization and drying technologies gives us the ability to produce custom specifications, to meet the most stringent requirements of demanding applications such as electronics, pharmaceutical production and power storage.

Flexible Packaging: Why buy 100 Kg drums if your batch size always requires 87.2 Kg? We can create custom package sizes just for you, to minimize waste and the risk of contamination caused by closing and reopening raw materials.

Flexible Service and Logistics: Let GFS handle your material requirements to ensure you get what you need, when you need it. We plan our campaigns to provide you with consistent shipments.

Flexible Production Scale and Planning: Our production, quality, and sales staff work together to understand and meet the needs of our customers.

Inorganic Technologies for Innovative Applications

GFS is committed to building on our 85+ years of experience, to continue to develop critical technologies for chemists and material scientists of all disciplines. We engineer our processes to operate consistently and produce the required quality every time. Nearly all of the periodic table is represented in our product lines, built upon these core technologies:

Moisture-Sensitive Compounds

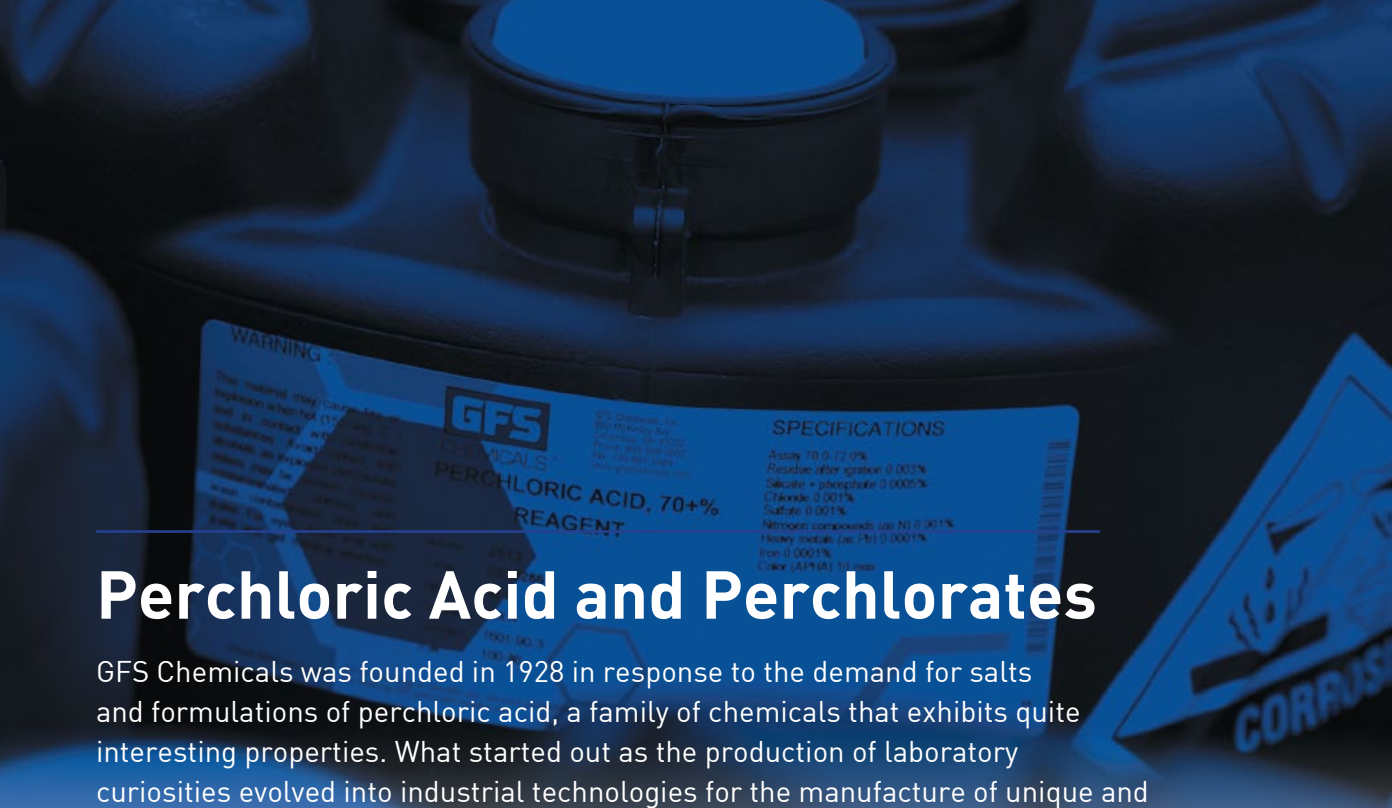
- GFS produces a wide variety of specialty anhydrous materials, using ambient or low-heat drying processes, vacuum-tray drying, or highly automated rotary vacuum drying.
- We have scalability with rotary dryers from 2.5 ft^3 to 110 ft^3. This allows us to meet most customer requirements throughout their product life cycle.
- Our state-of-the-art dry room can accommodate nearly any container size to prevent moisture absorption during packaging.

High Purity Acid Distillation and Low-Trace-Metal Salts

- GFS was founded on high purity acid distillation, and it remains our leading technology today.
- Our distillation and crystallization technologies have been developed and expanded over decades to meet the growing demand for high purity acids and corresponding salts, including:
    - Nitrates
    - Perchlorates
    - Chlorides
    - Chlorates
    - Sulfates
    - Iodates
    - Periodates

Oxidation and Catalysis

- GFS is a key producer of specialized materials used for oxidation and catalytic applications.
- Our core expertise in rare earth compounds, transition metal compounds, perchlorates, nitrates, high-purity processing, and moisture-sensitive salts gives us a wide offering of oxidation agents for catalysis, polymers, pharmaceutical R&D, and many other applications.
- GFS was founded on perchloric acid technology, and our expertise in the production and safe handling of strong oxidizers makes GFS a valuable partner to our customers, who realize the importance of process safety and proven chemistry.



Perchloric Acid and Perchlorates

GFS Chemicals was founded in 1928 in response to the demand for salts and formulations of perchloric acid, a family of chemicals that exhibits quite interesting properties. What started out as the production of laboratory curiosities evolved into industrial technologies for the manufacture of unique and highly specialized reagents.

Commercial Applications

Perchloric acid is the only mineral acid that is not constituted as a gas dissolved in water. Because of this, the vapor space above a solution of perchloric acid is devoid of perchlorates at temperatures below about 150 °C. Its oxidation power is readily controlled by managing the concentration and temperature, making it suitable as a process reagent and as a catalyst in many important commercial applications, such as:

- Esterification of cellulose to cellulose acetate
- Polymerization of phenols with formaldehyde
- Polymerization of styrene
- Electro-polishing, Chemical Mechanical Planarization (CMP) and etching of various metals and wafer materials
- Anodization of metals and other electrolytic applications
- Pickling and passivation of iron, steel, and other metals
- Dissolving refractory materials, including metal fluorides

Perchlorate salts also find commercial use in:

- Electrochromic devices
- Anodic dissolution of metals that are difficult to oxidize, such as lead and palladium
- Dopants to impart anti-static and conductive properties, heat stability, and fire retardant characteristics to polyvinylchloride (PVC) and other chlorine-containing polymers
- Electro-polymerization reactions involving monomers such as aniline, benzidene, azulene, biphenyl, divinylbenzene and indole
- Ammonium Perchlorates are also used in propellant mixtures, flares and explosive formulations
- Lithium Perchlorates are used for voltaic cells and batteries involving lithium or lithiated anodes, non-aqueous solvents or polymer films, and as dopants to impart conductive properties to thin films of polymers such as polyethylene oxide (PEO), polyethyleneglycol (PEG), or poly(vinylpyridine)
- Zinc or Magnesium Perchlorates are used in battery electrolytes for non-aqueous systems
- Anhydrous Magnesium Perchlorate is an effective drying agent or desiccant, especially for industrial gases

Analytical Chemistry Applications

Perchloric acid has been irreplaceable in many analytical protocols for nearly 100 years. The GFS web site (and GFS publication #496) describes some of these important uses, including:

- Solvent for metals and alloys
- Dehydrating agent for silicates
- Oxidizing agent for chromium determination
- Digestion of organic matter (in combination with nitric acid)
- Separation and determination of alkali metals
- Deproteination reagent in food analysis (e.g. butterfats)
- Adjunct to increase the reduction potential of cerate salts in volumetric analysis
- Strong acid titrant
- Titration of bases in non-aqueous solvents (with acetic acid)

"Specialty" Applications

One of the earliest topics of interest to our founder, Professor G. F. Smith, was the behavior of perchlorate salts in organic solvents. Perchlorate salts:

- Promote chemistries that are not possible with other catalysts
- Dramatically improve reaction rates and selectivities
- Enable novel chemistries in non-ether media and on inert supports
- Enable "naked-ion" chemistries with broad appeal in organic synthesis.

More information is available on the GFS web site (www.gfschemicals.com)

Rare Earth Salts and Solutions

If your products and processes rely on Rare Earth (RE) compounds, you are already aware of the importance of a stable, reliable supply chain to keep your products moving. Over the past few years, GFS has improved our RE production processes and established strong vertical integration in our supply chain. We have refined our technology and operations to allow us to utilize numerous routes and starting materials from secure sources, with an emphasis on domestic producers for several raw materials. We have also increased our capacity and expanded our infrastructure to remain a proud domestic producer of RE compounds.

What does that mean for you? A safe, competitive supply chain for Rare Earth salts and solutions, to prevent interruptions and surprises.

Commercial Applications

Rare Earths are unique in that while the trivalent ion is the most prevalent form, the highly oxidative tetravalent ion (i.e. Ce, Pr) as well as reductive divalent ion (i.e. Eu, Sm) are accessible. For this reason, Rare Earth compounds are essential components of many new and emerging technologies, including:

- Catalysts
- Superconductors
- Lasers and optical materials
- Phosphors
- Magnets

Ceric Ammonium Nitrate (CAN)

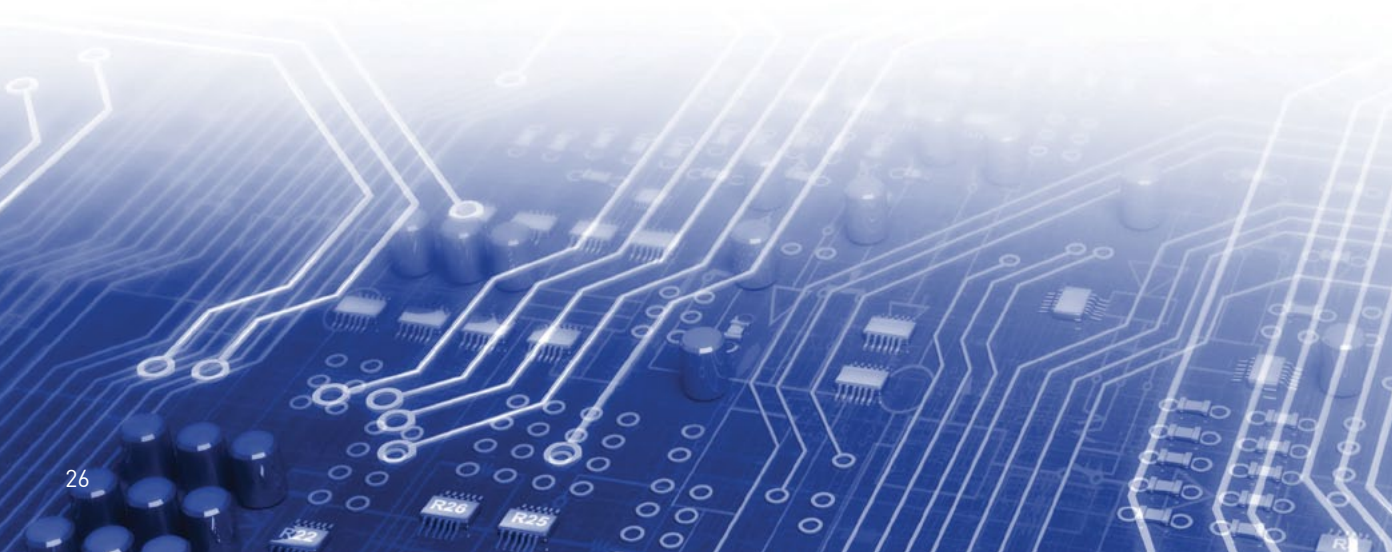
- GFS offers Ceric Ammonium Nitrate (CAN) in commercial, reagent, and electronics grades, all of which are available in metric-ton lots.
- CAN is a highly shelf-stable strong oxidizing agent used in electronic component manufacturing, photomasks, and liquid crystal displays.
- In synthetic organic chemistry, CAN is used as an oxidant for alcohols, phynols, ethers, and C-H bonds; for hetrocycle synthesis; and as a deprotection reagent.

Cerous Chloride

- GFS routinely produces metric ton-sized lots of anhydrous and crystalline hydrate cerous chloride, used in the synthesis of pharmaceutical intermediates and precursors.
- We produce both reagent and high-purity grades and can customize a cerous chloride product to any moisture and purity level to meet your needs.

Etchants

- Solutions of ceric ammonium nitrate (CAN) in dilute perchloric acid are widely used as etchants in the preparation of printed circuits, for preparation of metal samples, and for cleaning surfaces prior to soldering. It is particularly useful for etching nichrome, monel, stainless steel, and many other ferrous and non-ferrous alloys. We also produce a specialty etchant that does not contain perchloric acid.



Rare Earth Specialties

- Anhydrous or reduced-moisture rare earth salts
- Phenanthroline complexes used as electrofluorescence emitters
- Precursors for superconductor thin films
- Dopants for phosphors
- Precursors for fuel cell thin films
- Ferroelectric materials
- Reagents for organic synthesis

Rare Earth Drying and Packaging

GFS is able to dehydrate and package of most of the rare earth perchlorates, including Yttrium. Our Dry Room features temperature and atmospheric control to a relative humidity < 1% and a dew point below -45°C. Research quantities of selected reduced-moisture rare earth perchlorates are now available as described in the alphabetical section of this catalog. GFS can also provide larger quantities of reduced-moisture Rare Earth perchlorates, protected by state-of-the-art bottling and over-packing operations.

GFS Analytical Reagents

Save Time, Save Money: Buy Direct from GFS

GFS Chemicals is a manufacturer, not a distributor. Our products are made, stocked and shipped from our facilities in Columbus, Ohio -- most within 24 hours.

Over 8,000 Chemicals in 40,000 Configurations Available

We offer a full line of analytical and research chemicals at competitive prices.

- Salts
- Solvents
- Acids
- Reference Materials
- Specialty Reagents
- Separations Media
- Indicators
- Reagent Solutions

GFS Analytical Family of Brands

GFS CHEMICALS

WATER MARK Precision Water Reagents

VERITAS

INSPEC

AMCO Clear

Operations and Logistics

- Expanded and dedicated manufacturing and distribution facility for reagents.
- Exceedingly responsive to customer inquiries
- Negotiated freight rates
- No hazard fees
- Working closely with our organic and inorganic production facilities for consistent stock levels

Custom Kitting, Configurations, and Private Label Options.

Call GFS for help with your exact needs, even on a relatively small scale. We manufacture high-purity custom reagents and kits for many OEMs and lab chemical companies throughout the world.

- Calibration kits for instrument manufacturers
- Custom blends and solutions
- Custom concentrations, quantities, and packaging
- Private-label reagents

High Purity Acids

- Through proprietary technology developed over fifty years, GFS has perfected the distillation process to produce the highest purity acids distilled to part per billion and part per trillion levels with virtually no trace level contaminants.

Veritas® Ultimate™ - High Purity Solvents

- Consistent quality profile and improved availability. GFS offers solvents to cover a full range of applications and sensitivities, including ultra-low U.V. cut-off, distilled in glass or quartz, and HPLC solvents. The following solvents are available in a several grades including HPLC and Ultimate (Pesticide) grade:

- Veritas Inorganic Salts – bio-refined, ACS, HP, types by purity

	Grade	Acids	Salts	Solvents
VERITAS®	Ultimate			LC-MS/UV, Purge/Trap, Residue *Glass*
		PPT *FEP*	Titrimetric Standard *Glass*	
	DIG - Distilled In Glass			Pesticide/Residue Analysis *Glass*
	Environmental/ Instrument	Low PPB *PPQ/HDPE*		
	Redistilled	Low PPB		
	Bio-Refined		Biological/Biotech	
	HPLC Grade			HPLC
	Superior	ACS+ *Glass*		
	ACS/Certified ACS	Value Priced for Everyday Use	Value Priced for Everyday Use	Value Priced for Everyday Use

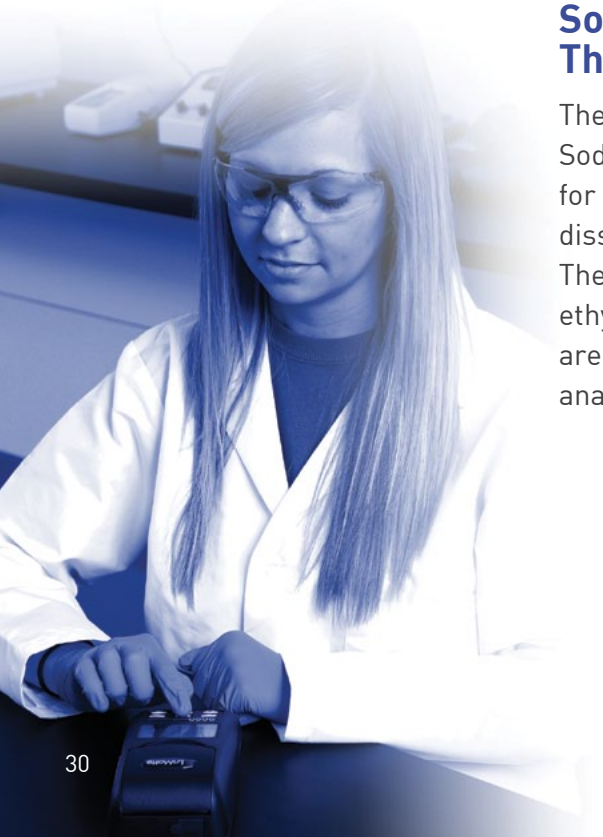
(Italics represent primary packaging material)

WATERMARK®
Precision Water Reagents

Watermark® Karl Fischer Reagents – manufactured by GFS

Full line of reagents and reference standards for Karl Fisher moisture analysis, guaranteed to be in stock for quick delivery.

- Pyridine-Based Reagents: (traditional KF products)
- Coulometric Reagents
- Volumetric Single-Solution Reagents: 5 mg/ml and 2 mg/ml.
- Volumetric Two-Component Reagents: Highly advanced and stable pyridine-free system.
- Titrant: 0.50 mg/ml, 1.00 mg/ml, 2.00 mg/ml, and 5.00 mg/ml.
- Solvents (Working Media): Methanol-based or Methanol-free
- Water Standards in Ampoules: Volumetric and Coulometric standards, single-use 5 ml ampoules (package of 10), sealed under ultra-high purity Argon gas.



Sodium Biphenyl: The Problem-Solving Reagent

The GFS Organic Halogen Reagent (OHR), based on Sodium Biphenyl, provides an effective and rapid method for analyzing halogen content for samples that can be dissolved in an inert solvent, such as toluene or ether. The reactive nature of the sodium biphenyl complex in ethyl diglyme ensures that halides in organic matrices are extracted into an aqueous solution that may be analyzed by $AgNo_3$ titration, ISE or colorimetry.

- Rapid – can be completed in 30 min or less
- Safe – minimizes chemical preparation and handling
- Versatile – applicable to a wide range of organic materials
- Fresh – manufactured frequently to maximize shelf life

AMCO Clear®

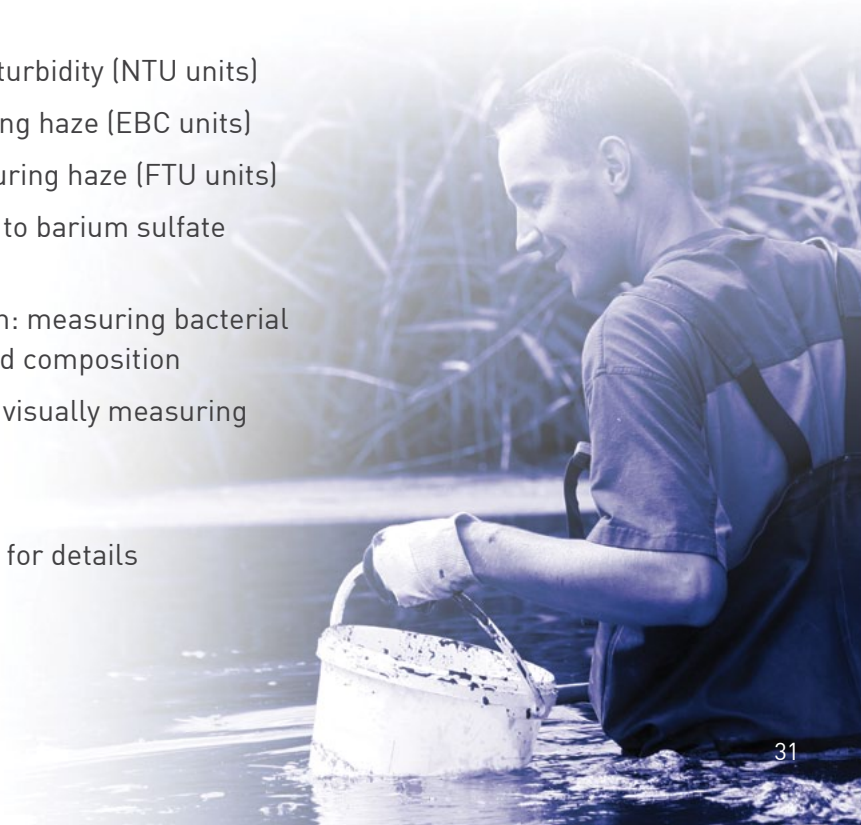
Traceable to NIST Primary Standard for the calibration of Turbidity Meters for water, wastewater, environmental and industrial water analysis.

- USEPA approved Primary Standard – a superior performance alternative to Formazin-based products
- ISO 17025 Accredited Laboratory*
- Safe, non-toxic and disposable
- Ready to use – no dilutions or preparations
- Available in a wide range of values
- Stable – will not settle from suspension
- Guaranteed one year shelf life
- Sealed secondary standards and calibration kits for all major instruments

AMCO Clear® Standards are Certified Reference Standards (CRS) for the calibration of:

- Turbidimeters: measuring turbidity (NTU units)
- Hazemeters (ISO): measuring haze (EBC units)
- Hazemeters (ASBC): measuring haze (FTU units)
- Non-hazardous alternative to barium sulfate in McFarland Standards
- Biomedical Instrumentation: measuring bacterial colony counts/protein/blood composition
- Visual Process Monitoring: visually measuring fermentation/distillation

* See Certificate No. 3336.01 for details

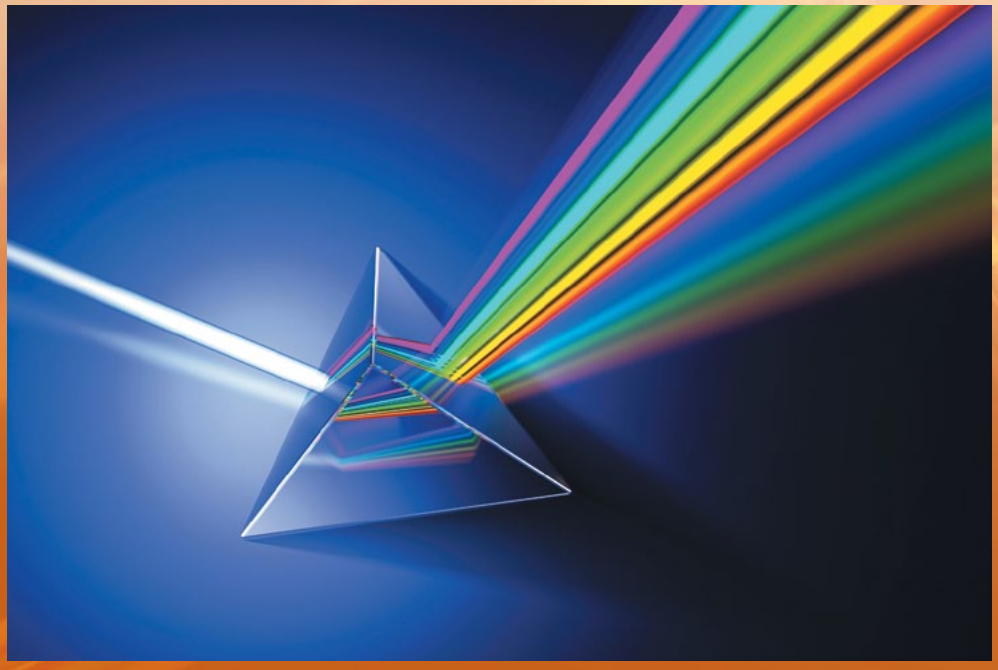


INSPEC®

Traceable to NIST Standards (SRM), non-toxic, ISO-17025 certified, affordable secondary standards for the verification of Spectrophotometers, Colorimeters and Micro-plate readers

- UV/Vis Validation Standards
- Photometric Accuracy Standards (Absorbance)
- Makes frequent validation easy, affordable, and accessible for everyone
- Photometric accuracy reference standards
- Wavelength accuracy filters
- Stray light filters.

Use as both a quality control check and to verify the operating procedure practiced by laboratory staff.



ACETALDEHYDE, REAGENT (ACS) ITEM 2388

Ethanal

CH_3CHO F.W. 44.05

Assay 99.5% min
Titrable Acid 0.008 meq/g
Residue after Evaporation 0.005%

CAS # 75-07-0 DOT 3/I NFPA # 3-4-2

88091	125 ML
88092	500 ML
88093	900 ML

Specific Gravity 0.804

(±)-ACETALDEHYDE ETHYL PROPARGYL ACETAL, 98% ITEM 3001

Requires Refrigeration.

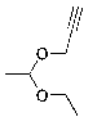
$CH_3CH(OCH_2CH_3)(OCH_2C{\equiv}CH)$ F.W. 128.17

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless to yellow liquid
Identification by GC/MS - Conforms

CAS # 18669-04-0 DOT 6.1/3/II

80001	100 G
80002	500 G

Specific Gravity 0.893



ACETAMIDE, REAGENT ITEM 827

CH_3CONH_2 F.W. 59.07

Assay (by GC-FID) 98.0% min.
Residue after ignition 0.01%
Chloride 0.002%
Heavy Metals (as Pb) 0.0005%
Solubility in benzene - pass test
Acetate 0.03%
Sulfate 0.002%
Loss on Drying 1.0% max.

CAS # 60-35-5 DOT NR NFPA # 1-1-1

10052	100 G
10051	500 G

ACETAMIDE OXIME, 96% ITEM 2559

Not on the TSCA inventory.

$CH_3C(NOH)NH_2$ F.W. 74.09

Assay (Nonaqueous titration), 95.0% - 105.0%
Appearance - White to off-white crystal
Identification by GC/MS - Conforms

CAS # 22059-22-9 DOT 9/III

10061	25 G
10062	100 G

ACETATE, 1,000 ppm, ION CHROMATOGRAPHY STANDARD SOLUTION ITEM 3753

Refrigerate to maximize shelf life

Concentration (as acetate) 1,000 ± 10 ug/mL Matrix: sodium acetate, water

DOT NR

23801	100 ML
23802	500 ML

Specific Gravity 1.000

ACETATE BUFFER

See Sodium Acetate-2M Acetic Acid Buffer

ACETATE BUFFER FOR CHLORINE (APHA) pH 4 ITEM 2001

CH_3COONa-CH_3COOH

pH of solution - approx. pH 4

DOT 8/III

24001	500 ML
24003	6 X 500 ML
24006	1 L
24002	4 L
24004	4 X 4 L
24005	20 L

Specific Gravity 1.060

ACETIC ACID, VERITAS® DOUBLE DISTILLED ITEM 1261

Ultra trace metal grade. Low PPT level impurities.

CH_3COOH F.W. 60.05

Assay 99.7% min.
Dilution test - pass test
Acetic Anhydride 0.01%
Sulfate 0.0001%
Titrable base 0.0004 meq/g
Color (APHA) 10 max.
Residue after evaporation 0.00001%
Chloride 0.0001%
Substances reducing permanganate-pass test
Reducing substances - pass test

CAS # 64-19-7 DOT 8/3/II NFPA # 2-2-0

T **10330**	250 ML
T **10331**	500 ML
T **10332**	2 L

T = FEP Bottle

Specific Gravity 1.050

ACETIC ACID, ENVIRONMENTAL GRADE ITEM 2589

Similar to Redistilled grade with guaranteed trace metal specifications. Packed in fluorinated bottles to minimize boron and silicon contamination.

CH_3COOH F.W. 60.05

Assay 99.7% min.
Dilution test - pass test
Acetic anhydride 0.01%
Sulfate 0.0001%
Reducing substances - Pass test
Color (APHA) 10
Residue after evaporation 0.0001%
Chloride 0.0001%
Heavy Metals (as Pb) 0.00001%
Substances reducing permanganate - Pass test

Titrable base 0.0004 meq/g

Ag 10 ppb	Al 10 ppb	As 10 ppb
Ba 10 ppb	Be 10 ppb	Ca 10 ppb
Cd 10 ppb	Co 10 ppb	Cr 10 ppb
Cu 10 ppb	Fe 10 ppb	K 10 ppb
Li 10 ppb	Mg 10 ppb	Mn 10 ppb
Mo 10 ppb	Na 10 ppb	Ni 10 ppb
Pb 10 ppb	Sb 10 ppb	Se 10 ppb
Sr 10 ppb	Ti 10 ppb	Tl 10 ppb
V 10 ppb	Zn 10 ppb	

CAS # 64-19-7 DOT 8/3/II NFPA # 2-2-0

10371	500 ML
10372	6 X 500 ML
10373	2 L
10374	4 X 2 L

Specific Gravity 1.050

ACETIC ACID, VERITAS® REDISTILLED ITEM 546

Trace metal grade. Low ppb metal impurities. Note: Results reported at time of bottling in glass. The levels of Al, B, Ca, K, Mg, Mn, Na and Si will increase over time.

CH_3COOH F.W. 60.05

Assay 99.7% min.
Dilution test - pass test
Acetic Anhydride 0.01%
Sulfate 0.0001%
Substances reducing dichromate - pass test
Color (APHA) 10 max.
Residue after evaporation 0.0001%
Chloride 0.0001%
Heavy Metals (Pb) 0.00001%
Substances reducing permanganate - pass test

Titrable base 0.0004 meq/g

Al 5 ppb	Ag 1 ppb	As 1 ppb
Au 1 ppb	B 10 ppb	Ba 1 ppb
Be 1 ppb	Bi 1 ppb	Ca 10 ppb
Cd 1 ppb	Ce 1 ppb	Co 1 ppb
Cr 1 ppb	Cs 1 ppb	Cu 1 ppb
Dy 1 ppb	Er 1 ppb	Eu 1 ppb
Fe 5 ppb	Ga 1 ppb	Gd 1 ppb
Ge 1 ppb	Hg 1 ppb	Ho 1 ppb
In 1 ppb	Ir 1 ppb	K 5 ppb
La 1 ppb	Li 1 ppb	Lu 1 ppb
Mg 2 ppb	Mn 1 ppb	Mo 1 ppb
Na 15 ppb	Nd 1 ppb	Ni 1 ppb
Pb 1 ppb	Pd 1 ppb	Pr 1 ppb
Pt 1 ppb	Rb 1 ppb	Rh 1 ppb
Ru 1 ppb	Sb 1 ppb	Sc 1 ppb
Se 1 ppb	Si 10 ppb	Sm 1 ppb
Sn 1 ppb	Sr 1 ppb	Tb 1 ppb
Te 1 ppb	Ti 1 ppb	U 1 ppb
V 1 ppb	W 1 ppb	Y 1 ppb
Yb 1 ppb	Zn 2 ppb	Zr 1 ppb

CAS # 64-19-7 DOT 8/3/II NFPA # 2-2-0

10311	500 ML
10312	2.5 L
10313	6 X 500 ML
10314	4 X 2.5 L
10315	6 X 2.5 L
10316	2.5 L PVC
10317	6X2.5L PVC

Specific Gravity 1.050

ACETIC ACID, SUPERIOR REAGENT (ACS) ITEM 2583

Metals analysis reported on certificate in ppm.

CH_3COOH F.W. 60.05

Assay 99.7% min.
Dilution test - Pass test
Acetic anhydride 0.01%
Sulfate 0.0001%
Iron 0.00002%
Substances reducing permanganate - Pass test
Color (APHA) 10
Residue after evaporation 0.001%
Chloride 0.0001%
Heavy metals 0.00005%
Substances reducing dichromate - Pass test
Titrable base 0.0004 meq/g

Ag 0.1 ppm	Al 0.1 ppm	Au 0.1 ppm
Ba 0.1 ppm	Ca 0.3 ppm	Cd 0.1 ppm
Co 0.1 ppm	Cr 0.1 ppm	Cu 0.1 ppm
Hg 0.1 ppm	K 0.3 ppm	Li 0.1 ppm
Mg 0.3 ppm	Mn 0.1 ppm	Mo 0.1 ppm
Na 0.3 ppm	Ni 0.1 ppm	Pb 0.1 ppm
Sr 0.1 ppm	Zn 0.1 ppm	

CAS # 64-19-7 DOT 8/3/II NFPA # 2-2-0

10361	500 ML
10362	6 X 500 ML
10363	2.5 L
10364	4 X 2.5 L
10365	6 X 2.5 L
10367	2.5 L PVC
10368	4X2.5L PVC
10362	6X2.5L PVC

Specific Gravity 1.050

ACETIC ACID, GLACIAL, REAGENT (ACS) ITEM 624

CH_3COOH F.W. 60.05

Assay 99.7% min.
Dilution Test Pass test
Acetic Anhydride 0.01%
Sulfate 0.0001%
Iron 0.00002%
Substances reducing permanganate-Pass test
Color (APHA) 10 max
Residue after evaporation 0.001%
Chloride 0.0001%
Heavy metals 0.00005%
Substances reducing dichromate-Pass test
Titrable base 0.0004 meq/g

CAS # 64-19-7 DOT 8/3/II NFPA # 2-2-0

10301	500 ML
10303	6 X 500 ML
10302	2.5 L
10304	4 X 2.5 L
10305	6 X 2.5 L
10308	2.5 L PVC
10303	4X2.5L PVC
10307	6X2.5L PVC

Specific Gravity 1.050

ACETIC ACID SOLUTION, 84%, REAGENT ITEM 1685

CH_3COOH F.W. 60.05

Assay 82-85%
Dilution test-pass test
Iron 0.00002%
Substances reducing permanganate-pass test
Acetic Anhydride 0.01%
Sulfate 0.0001%
Color (APHA) 10 max.
Residue after evaporation 0.001%
Substances reducing dichromate-pass test
Titrable base 0.0004 meq/g
Chloride 0.0001%
Heavy metals (Pb) 0.00005%

CAS # 64-19-7 DOT 8/3/II NFPA # 2-2-0

10352 2.5 L
10354 4 X 2.5 L
10353 6 X 2.5 L

Specific Gravity 1.070

ACETIC ACID SOLUTION, 70% ITEM 2006

Reagent Grade

CH_3COOH F.W. 60.05

Assay 70±1%

CAS # 64-19-7 DOT 8/II NFPA # 2-1-0

24053 1 L
24054 6 X 1 L
24051 4 L
24052 4 X 4 L

Specific Gravity 1.050

ACETIC ACID SOLUTION, 30% V/V ITEM 2005

Reagent Grade

CH_3COOH F.W. 60.05

Concentration 29.0-31.0% (v/v)

CAS # 64-19-7 DOT 8/III NFPA # 2-1-0

24041 4 L
24042 4 X 4 L

Specific Gravity 1.040

ACETIC ACID SOLUTION, 20% V/V ITEM 2004

Reagent Grade

CH_3COOH F.W. 60.05

Concentration 20 ± 2%

CAS # 64-19-7 DOT 8/III NFPA # 2-1-0

24031 4 L
24032 4 X 4 L

Specific Gravity 1.020

ACETIC ANHYDRIDE, REAGENT, (ACS) ITEM 714

$(CH_3CO)_2O$ F.W. 102.09

Assay 97.0% min
Chloride 0.0005%
Sulfate 0.0005%
Iron 0.0005%
Residue after evaporation 0.003%
Phosphate 0.001%
Heavy metals (as Pb) 0.0002%
Substances reducing permanganate Pass Test

CAS # 108-24-7 DOT 8/3/II NFPA # 3-2-2

10401 500 ML
10402 2.5 L
10403 6 X 500 ML
10404 4 X 2.5 L
10405 6 X 2.5 L

Specific Gravity 1.082

ACETONE, VERITAS® ULTIMATE SOLVENT ITEM 5562

$(CH_3)_2CO$ F.W. 58.08

Assay (corrected for water) 99.5%
ECD responsive substances 5 pg/ml
Color 10 max
Water 0.5%
UV Cut-off 329 nm
UV Abs. at 340 nm 0.06 max
Abs. at 400 nm 0.005 max
Residue after evaporation 0.0001%
FID responsive substances 3 ug/L
Titrable acid 0.0003 meq/g
Fluorescence (as quinine base) 1.0 ppb
UV Abs. at 335 nm 0.3 max
UV Abs. at 350 nm 0.005 max

CAS # 67-64-1 DOT 3/II NFPA # 1-3-0

17881 4 L
17882 4 X 4 L

Specific Gravity 0.791

ACETONE, DISTILLED IN GLASS ITEM 1232

Suitable for pesticide residue analysis and gas chromotography.

$(CH_3)_2CO$ F.W. 58.08

Assay (by GC, corrected for water) 99.7%
Chlorinated hydrocarbon residue 10 pg/ml
Titrable acid 0.0005 meq/g
Aldehyde (as HCHO) 0.002%
Methanol 0.05%
Substances reducing permanganate Pass Test
Water 0.5%
Residue after evaporation 0.0003%
Titrable base 0.0006 meq/g
Color 10 max
Isopropanol 0.05%

CAS # 67-64-1 DOT 3/II NFPA # 1-3-2

10473 1 L
10474 6 X 1 L
10471 4 L
10472 4 X 4 L

Specific Gravity 0.791

ACETONE, HPLC — ITEM 2481

Also meets ACS Specifications

$(CH_3)_2CO$ F.W. 58.08

Assay (GLC) 99.5% min.
UV Absorbance @ 340 nm 0.10
UV Absorbance @ 400 nm 0.01
Solubility in water - Pass test
Titrable base 0.0006 meq/g
Color (APHA) 10 max.
Substances reducing permanganate - Pass test
UV Absorbance @ 330 nm 1.00
UV Absorbance @ 350 nm 0.02
Residue after evaporation 2 ppm
Titrable acid 0.0003 meq/g
Aldehyde (as HCHO) 0.002%
Isopropanol/Methanol (each) 0.05%
Water 0.5%

CAS # 67-64-1 DOT 3/II NFPA # 1-3-2

10491	1 L
10492	6 X 1 L
10493	4 L
10494	4 X 4 L
10495	4 L PVC
10496	4 X 4L PVC

Specific Gravity 0.791

ACETONE, ACS ULTRAVIOLET SPECTROPHOTOMETRY GRADE — ITEM 829

Suitable for ultraviolet spectrophotometry

$(CH_3)_2CO$ F.W. 58.08

Assay 99.5% min.
UV Absorbance @ 350 nm 0.02
Residue after evaporation 0.001%
Titrable acid 0.0003 meq/g
Aldehyde 0.002%
Isopropanol 0.05%
Substances reducing permanganate-Pass test
UV Absorbance @ 400 nm 0.01
UV Absorbance @ 340/330 nm 0.10/1.00
Solubility in water-Pass test
Titrable base 0.0006 meq/g
Color (APHA) 10 max
Methanol 0.05%
Water 0.5%

CAS # 67-64-1 DOT 3/II NFPA # 1-3-2

10464	1 L
10465	6 X 1 L
10462	4 L
10463	4 X 4 L

Specific Gravity 0.791

ACETONE, REAGENT (ACS) — ITEM 828

$(CH_3)_2CO$ F.W. 58.08

Assay (GLC) 99.5% min
Solubility in water - Pass Test
Titrable base 0.0006 meq/g
Color (APHA) 10 max
Methanol 0.05%
Water 0.5%
Residue after evaporation 0.001%
Titrable acid 0.0003 meq/g
Aldehyde (as HCHO) 0.002%
Isopropanol 0.05%
Substances reducing permanganate - Pass Test

CAS # 67-64-1 DOT 3/II NFPA # 1-3-2

10451	500 ML
10457	6 X 500 ML
10454	1 L
10455	6 X 1 L
10452	4 L
10453	4 X 4 L
10456	20 L

Specific Gravity 0.791

ACETONITRILE, GRADIENT, VERITAS® ULTIMATE SOLVENT — ITEM 5563

CH_3CN F.W. 41.05

Assay 99.9%
Residue after evaporation 0.0001%
Titrable base 0.0002 meq/g
Gradient at 210 nm 0.002 AU max
UV Cut-off 189 nm
UV at 210 nm 0.03 AU max
UV at 270 nm 0.005 AU max
Color 10 max
Titrable acid 0.008 meq/g
Fluorescence (as quinine base) 300 ppt
Gradient at 254 nm 0.0003 AU max
UV at 195 nm 0.15 AU max
UV at 230 nm 0.01 AU max
Water 0.02% max

CAS # 75-05-8 DOT 3/II NFPA # 2-3-0

17891	4 L
17892	4 X 4 L

Specific Gravity 0.780

ACETONITRILE, LOW WATER, VERITAS® ULTIMATE — ITEM 5579

CH_3CN F.W. 41.05

Assay 99.9% min
Residue after evaporation 0.005%
Titrable base 0.6 ueq/g max
Absorbance at 210 nm 0.6 AU
Absorbance at 230 nm 0.08 AU
Absorbance at 300 nm 0.01 AU
Color APHA 10 max
Titrable acid 2.0 ueq/g max
UV Cut-off 200 nm
Absorbance at 220 nm 0.3 AU
Absorbance at 250 nm 0.03 AU
Water 0.001%

CAS # 75-05-8 DOT 3/II NFPA # 2-3-0

20341	1 L
20342	6 X 1 L
20343	4 L
20344	4 X 4 L

Specific Gravity 0.780

ACETONITRILE, DISTILLED IN GLASS — ITEM 1233

Suitable for pesticide analysis, gas chromatography, liquid chromatography and ultraviolet spectrophotometry

CH_3CN F.W. 41.05

Assay (GLC) 99.7% min
Residue after evaporation 0.0003%
Titrable acid 0.008 meq/g
Color 10 max
Water 0.02%
Chlorinated hydrocarbon residue 10 pg/ml
Titrable base 0.0006 meq/g

CAS # 75-05-8 DOT 3/II NFPA # 2-3-0

10513	1 L
10514	6 X 1 L
10511	4 L
10512	4 X 4 L

Specific Gravity 0.780

ACETONITRILE, HPLC — ITEM 2482

Also meets ACS Specifications

CH_3CN F.W. 41.05

Assay 99.9% min.
UV Absorbance @ 190 nm 1.00
UV Absorbance @ 210 nm 0.03
UV Absorbance @ 254-400 nm 0.005
Residue after evaporation 2 ppm
Titrable base 0.0006 meq/g
Color (APHA) 10
UV Absorbance @ 200 nm 0.05
UV Absorbance @ 220 nm 0.02
LC Gradient Suitability - Pass test
Titrable acid 0.008 meq/g
Water 0.01%

CAS # 75-05-8 DOT 3/II NFPA # 2-3-0

10541	1 L
10542	6 X 1 L
10543	4 L
10544	4 X 4 L
10547	4 L PVC
10542	4 X 4L PVC

Specific Gravity 0.780

ACETONITRILE, REAGENT (ACS) — ITEM 830

CH_3CN F.W. 41.05

Appearance - clear colorless liquid
Color(APHA) 10 max
Titrable acid 0.008 meq/g
Water 0.3%
Assay 99.5% min.
Residue after evaporation 0.005%
Titrable base 0.0006 meq/g

CAS # 75-05-8 DOT 3/II NFPA # 2-3-0

10504	1 L
10505	6 X 1 L
10502	4 L
10503	4 X 4 L

Specific Gravity 0.780

ACETONYL ACETONE, 97% — ITEM 2384

2,5-Hexanedione

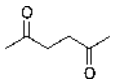
$CH_3COCH_2CH_2COCH_3$ F.W. 114.14

Assay (GC-FID), 96.5% min
H2O (KF), 0.5% max
Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 110-13-4 DOT NR NFPA # 1-1-0

10571	100 G
10572	500 G
10573	3.5 KG

Specific Gravity 0.974



ACETOPHENONE, 98% — ITEM 1069

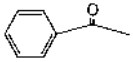
$C_6H_5COCH_3$ F.W. 120.15

Assay (GC-FID), 97.5% min
Color - Colorless to yellow
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 98-86-2 DOT 3/III NFPA # 1-2-1

10531	500 ML
10532	6 X 500 ML
10533	4 L
10534	50 L

Specific Gravity 1.028



4-ACETOXYPHENYLACETYLENE

See 4-Ethynylphenyl Acetate

ACETYLACETONE

See 2,4-Pentanedione, 99%

ACETYL CHLORIDE, 99% — ITEM 5307

Ethanoic Acid Chloride

CH_3COCl F.W. 78.50

Assay (GC-FID), 98.5% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 75-36-5 DOT 3/8/II NFPA # 3-3-2

88106	500 ML
88107	6 X 500 ML
88108	4 L

Specific Gravity 1.104

ACETYLDIPHENYLAMINE

See Diphenylacetamide

3-ACETYLPHENYLACETYLENE, 98% — ITEM 2933

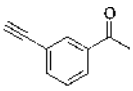
Not on the TSCA inventory.

$HC{\equiv}CC_6H_4COCH_3$ F.W. 144.17

Assay (GC-FID), 97.5% min
Appearance - Yellow powder/solid
Identification by GC/MS - Conforms

CAS # 139697-98-6 DOT NR

38671	1 G
38672	5 G



4-ACETYLPHENYLACETYLENE, 98% ITEM 2935

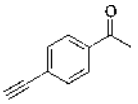
4-Ethynylacetophenone. Not on the TSCA inventory.

$HC{\equiv}CC_6H_4COCH_3$ F.W. 144.17

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms
Appearance - Yellow powder/solid

CAS # 42472-69-5 DOT NR

14291	1 G
14292	5 G
14293	25 G



ACID NEUTRALIZING POWDER, INDICATING ITEM 5638

DOT NR

20641	10 KG
20642	22.7 KG

ACID POTASSIUM PHTHALATE

See Potassium Acid Phthalate

ACTIVATED CARBON

See Carbon, Activated, Darco G-60

1-ADAMANTYLACETYLENE

See 1-Ethynyladamantane

AGAR, POWDER ITEM 667

Appearance - white to cream (beige) powder
Solubility of 1.5% solution - slightly hazy
pH of 1.5% solution 6-8
Moisture 20% max.
Residue on ignition 6.5% max.

CAS # 9002-18-0 DOT NR NFPA # 0-0-0

10801	100 G
10802	500 G
10803	2.5 KG

ALCOHOL REAGENT, ANHYDROUS, REAGENT (ACS) ITEM 1850

Reagent alcohol, consisting of about 5 volumes of isopropyl alcohol and 95 volumes of specially denatured formula 3-A alcohol. Cannot be used for human consumption.

Assay 94.0-96.0% (v/v) Ethanol & Methanol
4.0-6.0% (v/v) Isopropanol
Residue after evaporation 0.001%
Color (APHA) 10
Water 0.5%

CAS # 64-17-5 DOT 3/II NFPA # 1-3-0

10905	1 L
10906	6 X 1 L
10903	4 L
10904	4 X 4 L

Specific Gravity 0.790

ALIQUAT 175 ITEM 2717

Tributylmethylammonium chloride solution in water.

$(C_4H_9)_3CH_3NCl$ F.W. 235.84

Assay (as Tributylmethylammonium chloride) 73-76%

CAS # 56375-79-2 DOT NR

10951	100 G
10952	1 KG

Specific Gravity 0.960

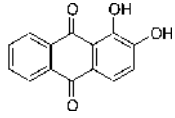
ALIZARIN ITEM 668

$C_{14}H_8O_4$ F.W. 240.22

pH range 5.5-6.8 (Yellow-Red) Pass Test
pH range 10.1-12.1 (Red-Purple) Pass Test

CAS # 72-48-0 DOT NR NFPA # 2-1-1

11002	100 G
11003	500 G



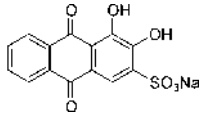
ALIZARIN RED S ITEM 831

$C_{14}H_7O_7SNa$ F.W. 342.27

pH range 4.6-6.0 yellow-red

CAS # 130-22-3 DOT NR

11031	25 G
11032	100 G



ALIZARIN RED S SOLUTION, 1% AQUEOUS — ITEM 2012

pH range 4.6-6.0 yellow-red

CAS # 130-22-3 DOT NR

24111 500 ML

Specific Gravity 1.010

ALIZARIN YELLOW R, SODIUM SALT — ITEM 832

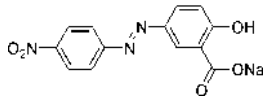
Water soluble indicator

$NO_2C_6H_4N{\bullet}NC_6H_3(OH)COONa$ F.W. 309.22

pH indicator range 10.1-12.1 yellow-orange red

CAS # 1718-34-9 DOT NR

11041 25 G
11042 100 G



ALIZARIN YELLOW R SOLUTION, 0.01% AQUEOUS — ITEM 2013

pH indicator range 10.0-12.0 yellow to red

DOT NR

24121 500 ML

Specific Gravity 1.000

ALKALI IODIDE AZIDE SOLUTION — ITEM 9807

for modified Winkler titration

DOT 8/II

19221 1 L

ALLYLACETYLENE

See 1-Penten-4-yne

ALLYL BROMIDE, 98% — ITEM 2973

$H_2C{=}CHCH_2Br$ F.W. 120.98

Assay 98% min.

CAS # 106-95-6 DOT 3/6.1/I

11092 500 G
11093 2.5 KG

Specific Gravity 1.398

ALLYL CHLORIDE, 98% — ITEM 2718

3-Chloropropene

$H_2C{=}CHCH_2Cl$ F.W. 76.53

Assay (GC-FID), 97.5% min
Color - Colorless
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 107-05-1 DOT 3/6.1/I NFPA # 3-3-1

11102 1 L
11103 4 L
11104 18.5 L

Specific Gravity 0.939

ALLYLCYCLOHEXANE

See 3-Cyclohexyl-1-Propene, 97%

ALLYLCYCLOPENTANE, 98% — ITEM 3435

Not on the TSCA inventory.

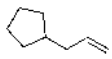
$CH_2{=}CHCH_2(C_5H_9)$ F.W. 110.20

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless liquid

CAS # 3524-75-2 DOT 3/II

32552 25 G
32553 100 G
32554 500 G

Specific Gravity 0.793



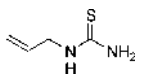
1-ALLYL-2-THIOUREA, 98% — ITEM 5192

$H_2C{=}CHCH_2NHCSNH_2$ F.W. 116.18

Assay (Nonaqueous titration)
97.5% - 102.5%
Appearance - White to off-white crystal/powder

CAS # 109-57-9 DOT 6.1/III NFPA # 2-0-0

10241 50 G
10242 250 G



ALUM

See Aluminum Potassium Sulfate, Dodecahydrate

ALUMINA, ACTIVATED — ITEM 670

Chromatographic Grade.

Al_2O_3 F.W. 101.96

Mesh size 80-200 mesh

CAS # 1344-28-1 DOT NR NFPA # 1-0-0

11201 500 G
11202 2.5 KG

ALUMINA, ACTIVATED — ITEM A0186

Desiccant. Basic, pH of a 5% slurry typically is 9.5.

Al_2O_3 F.W. 101.96

8-14 mesh pH (5% slurry)

CAS # 1344-28-1 DOT NR NFPA # 1-0-0

11211	500 G
11212	2.5 KG
11213	10 KG
11214	50 KG

ALUMINA

See also Aluminum Oxide, 99,995%

ALUMINA, ACTIVATED, ACIDIC, BROCKMANN I — ITEM 2618

Chromatographic Grade. Camag 504-C-I

Al_2O_3 F.W. 101.96

pH (5% aqueous suspension) 4.0-5.0

CAS # 1344-28-1 DOT NR NFPA # 1-0-0

11241	100 G
11242	1 KG
11244	5 KG

ALUMINA, ACTIVATED, BASIC, BROCKMANN I — ITEM 2619

Chromatographic Grade. Camag 5016-A-I

Al_2O_3 F.W. 101.96

pH (5% aqueous suspension) 9.0-10.0

CAS # 1344-28-1 DOT NR NFPA # 1-0-0

11251	5 G
11252	100 G
11253	1 KG
11254	5 KG

ALUMINA, ACTIVATED, NEUTRAL, BROCKMANN I — ITEM 2620

Chromatographic Grade. Camag 507-C-I

Al_2O_3 F.W. 101.96

pH (5% aqueous suspension) 6.5-7.5

CAS # 1344-28-1 DOT NR NFPA # 1-0-0

11261	5 G
11262	100 G
11263	1 KG
11264	5 KG

ALUMINON, REAGENT (ACS) — ITEM 588

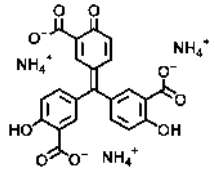
Aurintricarboxylic Acid, Ammonium Salt

$C_{22}H_{23}N_3O_9$ F.W. 473.44

Sensitivity to Aluminum - pass test Insoluble matter 0.1%
Residue after ignition 0.2%

CAS # 569-58-4 DOT NR

11401	25 G
11402	100 G



ALUMINUM, SHOT, REAGENT (ACS) — ITEM 671

Nominally 2-5 mesh

Al F.W. 26.98

Insoluble in dil. HCl 0.05% Silicon 0.1%
Nitrogen Compounds 0.001% Copper 0.02%
Iron 0.1% Manganese 0.002%
Titanium 0.03%

CAS # 7429-90-5 DOT NR NFPA # 0-1-1

11501	500 G
11502	2.5 KG

ALUMINUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1701

Concentration 10,000 ± 100 ug/ml Matrix: <5% HCl
NIST Traceable

DOT 8/III NFPA # 2-0-0

22010	100 ML
22012	500 ML

Specific Gravity 1.010

ALUMINUM, 1000 ppm ICP STANDARD SOLUTION — ITEM 1700

Concentration 1,000 ± 10 ug/ml Matrix: <5% HCl
NIST Traceable

DOT 8/III NFPA # 2-0-0

22000	100 ML
22002	500 ML

Specific Gravity 1.010

ALUMINUM, 1000 ppm ICP STANDARD SOLUTION — ITEM 2298

Concentration 1,000 ± 10 ug/ml — Matrix: 5% nitric acid
NIST Traceable

DOT 8/III — NFPA # 2-0-1

11490	100 ML
11492	500 ML

Specific Gravity 1.030

ALUMINUM, 1000 ppm STANDARD SOLUTION — ITEM 737

AA or colorimetric standard

Concentration 1,000 ± 10 ug/ml — Matrix: <5% Hydrochloric acid
NIST Traceable

DOT 8/III — NFPA # 2-0-0

70000	100 ML
70002	500 ML

Specific Gravity 1.020

ALUMINUM ACETYLACETONATE, REAGENT — ITEM A0096

Aluminum 2,4-Pentanedionate

$Al(C_5H_7O_2)_3$ F.W. 324.32

Insoluble in alcohol 0.1% — M.p. 190-193 Deg. C

CAS # 13963-57-0 DOT 6.1/II

11422	100 G
11421	500 G
11423	2.5 KG
11424	10 KG

ALUMINUM AMMONIUM SULFATE, DODECAHYDRATE, REAGENT (ACS) — ITEM 833

$AlNH_4(SO_4)_2 \bullet 12H_2O$ F.W. 453.33

Assay 98.0-102.0% — Insoluble 0.005%
Chloride 0.001% — Calcium 0.05%
Heavy Metals 0.001% — Iron 0.001%
Potassium 0.05% — Sodium 0.01%

CAS # 7784-26-1 DOT NR NFPA # 1-0-0

11520	100 G
11521	500 G
11522	2.5 KG
11523	12 KG

ALUMINUM CHLORIDE, ANHYDROUS, REAGENT — ITEM 834

$AlCl_3$ F.W. 133.34

Assay 99% — Sulfate 0.005%
Heavy metals (as Pb) 0.002% — Iron 0.01%

CAS # 7446-70-0 DOT 8/II NFPA # 3-0-3

11535	100 G
11531	500 G
11532	2.5 KG
11536	50 LB

ALUMINUM CHLORIDE, HEXAHYDRATE, 99.999% — ITEM 5116

$AlCl_3 \bullet 6H_2O$ F.W. 241.43

Assay (metals basis) 99.999% min.

CAS # 7784-13-6 DOT NR NFPA # 1-0-1

88061	10 G
88062	50 G

ALUMINUM CHLORIDE, HEXAHYDRATE, REAGENT — ITEM 835

$AlCl_3 \bullet 6H_2O$ F.W. 241.43

Assay 97% min. — Insoluble 0.005%
Sulfate 0.01% — Heavy metals (as Pb) 0.001%
Iron 0.001%

CAS # 7784-13-6 DOT NR NFPA # 1-0-1

11540	100 G
11541	500 G
11542	2.5 KG
11543	10 KG
11544	50 KG
11545	100 KG

ALUMINUM FLUORIDE, TRIHYDRATE — ITEM A0153

$AlF_3 \bullet 3H_2O$ F.W. 138.02

Loss on ignition (at 600 C) <8%

CAS # 15098-87-0 DOT 8/II

11471	100 G
11472	500 G

ALUMINUM HYDROXIDE, REAGENT — ITEM 1133

Mesh size (typical) 80-98% cumulative 200-325 mesh

$Al(OH)_3$ F.W. 78.00

Assay 98% min. — Chloride 0.002%
Sulfate 0.005% — Heavy Metals (Pb) 0.005%
Iron 0.01%

CAS # 21645-51-2 DOT NR NFPA # 1-0-0

11561	500 G
11562	2.5 KG
11563	10 KG
11564	50 KG

ALUMINUM ISOPROPOXIDE, 99.99+% ITEM 3603

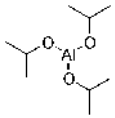
$[(CH_3)_2CHO]_3Al$ F.W. 204.25

Assay 99.99+%

CAS # 555-31-7 DOT 4.1/II NFPA # 2-1-2

11591	10 G
11592	50 G
11593	250 G

Specific Gravity 1.035



ALUMINUM ISOPROPOXIDE, 98% ITEM 3602

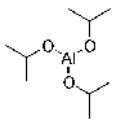
$[(CH_3)_2CHO]_3Al$ F.W. 204.25

Assay 98%

CAS # 555-31-7 DOT 4.1/II NFPA # 2-1-2

11581	10 G
11582	100 G
11583	500 G

Specific Gravity 1.035



ALUMINUM MOLYBDATE, 99.5% ITEM 1292

$Al_2(MoO_4)_3$ F.W. 533.78

Assay (metals basis) 99.5% min.

CAS # 15123-80-5 DOT NR

11681	50 G

ALUMINUM NITRATE, NONAHYDRATE, 99.999% ITEM 5004

$Al(NO_3)_3 \bullet 9H_2O$ F.W. 375.13

Assay (metals basis) 99.999% min

CAS # 7784-27-2 DOT 5.1/III NFPA # 2-0-3

87011	10 G
87012	50 G

ALUMINUM NITRATE, NONAHYDRATE, REAGENT (ACS) ITEM 644

$Al(NO_3)_3 \bullet 9H_2O$ F.W. 375.13

Assay 98.0-102.0%
Chloride 0.001%
Calcium 0.005%
Potassium 0.002%
Iron 0.002%
Insoluble 0.005%
Sulfate 0.005%
Magnesium 0.001%
Sodium 0.005%
Heavy Metals (by ICP-OES) 0.001%

CAS # 7784-27-2 DOT 5.1/III NFPA # 2-0-3

11550	100 G
11551	500 G
11552	2.5 KG
11553	10 KG
11554	50 KG
11555	500 KG
11556	1000 KG

ALUMINUM OXIDE, 99.995% ITEM 5006

Al_2O_3 F.W. 101.96

Assay (metals basis) 99.995% min

CAS # 1344-28-1 DOT NR NFPA # 1-0-0

87021	5 G
87022	25 G

ALUMINUM OXIDE, 99.95% ITEM A0192

Al_2O_3 F.W. 101.96

Assay (metals basis) 99.95% min.

CAS # 1344-28-1 DOT NR NFPA # 1-0-0

11221	50 G

ALUMINUM OXIDE

See also Alumina

ALUMINUM OXIDE, HYDRATE

See Aluminum Hydroxide

ALUMINUM PERCHLORATE, DEHYDRATED, REAGENT ITEM 3718

Approximates trihydrate formulation; ca. 14% water. Reduced-moisture salt to promote synthetic organic reactions. Bartoli, et al., Eur. J. Org. Chem. (2003), 4611.

$Al(ClO_4)_3 \bullet 3H_2O$ F.W. 379.48

Aluminum content 6.8-7.5%
Chloride 0.01%
Iron 0.01%
Insoluble matter 0.01%
Sulfate 0.005%
pH (5% solution) 1-4

CAS # 14452-39-2 DOT 5.1/II

10251	25 G
10252	100 G
10253	500 G

ALUMINUM PERCHLORATE, HYDRATED, REAGENT — ITEM 2

$Al(ClO_4)_3 \bullet 9H_2O$ F.W. 487.48

Insoluble 0.01%
Sulfate 0.005%
pH of 5% Sol'n 0-3
Chloride 0.01%
Iron 0.01%

CAS # 81029-06-3 DOT 5.1/III

11600	100 G
11601	500 G
11602	2.5 KG
11603	10 KG
11604	50 KG
11605	100 KG
11606	500 KG

ALUMINUM PHOSPHATE, REAGENT — ITEM 5325

$AlPO_4$ F.W. 121.95

Identity - pass test
Loss on ignition 1%

CAS # 7784-30-7 DOT NR

Please Inquire For Sizes

ALUMINUM POTASSIUM SULFATE, DODECAHYDRATE, REAGENT (ACS) — ITEM 772

$AlK(SO_4)_2 \bullet 12H_2O$ F.W. 474.48

Assay 98.0-102.0%
Chloride 0.0005%
Sodium 0.02%
Iron 0.001%
Insoluble 0.005%
Ammonium 0.005%
Heavy Metals (as Pb) 0.001%

CAS # 7784-24-9 DOT NR NFPA # 1-0-0

11630	100 G
11631	500 G
11632	2.5 KG
11633	10 KG
11634	50 KG

ALUMINUM SILICATE — ITEM A0207

$Al_2Si_2O_7 \bullet 2H_2O$ F.W. 258.17

CAS # 1327-36-2 DOT NR

11641	500 G

ALUMINUM SULFATE, HYDRATED, 99.99+% — ITEM 5007

Ranges from 14-18 hydrate

$Al_2(SO_4)_3 \bullet xH_2O$ F.W. 342.15 + XH2O

Assay (metals basis) 99.99+% min

CAS # 17927-65-0 DOT NR NFPA # 1-0-0

87031	5 G
87032	25 G

ALUMINUM SULFATE, HYDRATED, REAGENT (ACS) — ITEM 598

Ranges from 14-18 hydrate

$Al_2(SO_4)_3 \bullet 16H_2O$ F.W. 630.40

Degree of Hydration 14-18
Insoluble 0.01%
Iron 0.002%
Calcium 0.01%
Potassium 0.005%
Assay (as above hydrate) 98.0-102.0%
Chloride 0.005%
Heavy metals (as Pb) 0.001%
Magnesium 0.002%
Sodium 0.02%

CAS # 16828-11-8 DOT NR NFPA # 1-0-0

11650	100 G
11651	500 G
11652	2.5 KG
11653	10 KG
11654	50 KG

ALUMINUM SULFATE, HYDRATE — ITEM 5193

Typically 14-18 hydrate

$Al_2(SO_4)_3 \bullet XH_2O$ F.W. 342.15 (+XH2O)

Aluminum content (EDTA titration) 7.9-9.4%

CAS # 17927-65-0 DOT NR NFPA # 1-0-0

10261	500 G
10262	2.5 KG
10263	10 KG
10264	50 KG

ALUMINUM TRI(sec-BUTOXIDE), 97% — ITEM 3604

$[C_2H_5CH(CH_3)O]_3Al$ F.W. 246.33

CAS # 2269-22-9 DOT 3/6.1/III

11431	10 G
11432	100 G
11433	500 G

ALUMINUM TRI(tert-BUTOXIDE), TECHNICAL — ITEM 3605

$[(CH_3)_3CO]_3Al$ F.W. 246.33

Aluminum content 10.1% min.

CAS # 556-91-2 DOT 4.3/III

11481	10 G
11482	50 G
11483	250 G

ALUMINUM TRIFLATE

See Aluminum Trifluoromethanesulfonate

ALUMINUM TRIFLUOROMETHANESULFONATE ITEM 3519

Not on the TSCA inventory

$(CF_3SO_3)_3Al$ F.W. 474.19

Aluminum (by EDTA titration) 5.3-6.0%

CAS # 74974-61-1 DOT 8/III

11731	5 G
11732	25 G

ALUMINUM TUNGSTATE, 99% ITEM A0225

$Al_2(WO_4)_3$ F.W. 797.51

CAS # 15123-82-7 DOT NR

11751	50 G

AMALGAMATED ZINC

See Zinc, Amalgamated

AMARANTH ITEM 103

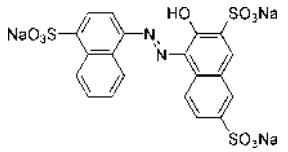
C.I. 16185. Indicator for iodate and bromate oxidimetry.

$C_{20}H_{11}N_2O_{10}S_3Na_3$ F.W. 604.48

Suitablility as indicator in iodate titration

CAS # 915-67-3 DOT NR NFPA # 1-0-0

11802	100 G



AMBERLITE® IR-120 (PLUS), HYDROGEN FORM, ION-EXCHANGE RESIN ITEM 2642

Strongly acidic gel-type resin with sulfonic acid functionality. Total capacity 1.9 meq/ml.

Assay (Whole Beads) > 95% Particle Size <300 micron < 2.0%
Particle Size >1180 micron < 3.0%

CAS # 39389-20-3 DOT NR

11821	100 G
11822	500 G
11823	2.5 KG

AMBERLITE® IR-120 (PLUS), SODIUM FORM, ION-EXCHANGE RESIN ITEM 2643

Gel-type resin with sulfonic acid functionality.

CAS # 9002-23-7 DOT NR

11831	250 G
11832	500 G
11833	2.5 KG

AMBERLITE® IRA-67, ION-EXCHANGE RESIN ITEM 2644

Weakly basic gel-type resin with tertiary amine functionality. Total capacity 1.6 meq/ml.

DOT NR NFPA # 1-1-0

11841	100 G
11842	500 G
11843	2.5 KG

AMBERLITE® IRA-400 (CL), ION-EXCHANGE RESIN ITEM 2645

Strongly basic gel-type resin with quaternary ammonium functionality.

CAS # 60177-39-1 DOT NR NFPA # 1-1-0

11851	100 G
11852	500 G
11853	1 KG

AMBERLITE® IRA-410, ION-EXCHANGE RESIN ITEM 2646

Strongly basic gel-type resin with benzyldimethyl(2-hydroxyethyl)ammonium functionality. Useful in catalytic applications.

CAS # 63181-94-2 DOT NR

11861	100 G
11862	500 G
11863	1 KG

AMBERLITE® IRA-900, ION-EXCHANGE RESIN ITEM 2647

Strongly basic, macroreticular resin of moderately high porosity with benzyltrialkylammonium functionality. Useful in decolorizing and removal of organic materials.

CAS # 60177-39-1 DOT NR NFPA # 1-1-0

11871	100 G
11872	500 G
11873	1 KG

AMBERLYST® 15, ION-EXCHANGE RESIN ITEM 2652

Strongly acidic, macroreticular, with sulfonic acid functionality, suitable for non-aqueous catalyst.

Capacity 4.70 eq/kg min. Moisture 1.60% max.
Particle size less than 0.3 mm 0.5% max.

CAS # 39389-20-3 DOT NR

11921	100 G
11922	500 G
11923	1 KG
11924	2.5 KG

AMBERLYST® 15 (WET), ION-EXCHANGE RESIN — ITEM 2653

Strongly acidic, macroreticular, with sulfonic acid functionality, suitable for non-aqueous catalyst.

CAS # 39389-20-3 DOT NR

11931	100 G
11932	500 G
11933	1 KG
11934	2.5 KG

AMBERLYST® A-21, ION-EXCHANGE RESIN — ITEM 2654

Weakly basic, macroreticular, alkyl amine functionality.

Total Volume Capacity 1.30 eq/L min. Moisture Retention Capacity 56.0-62.0%

Particle Size < 300 micron 1.0% max.

CAS # 9049-93-8 DOT NR

11941	100 G
11942	500 G
11943	1 KG
11944	2.5 KG

AMIDOSULFONIC ACID

See Sulfamic Acid

AMINOACETIC ACID

See Glycine

4-AMINOBENZENESULFONAMIDE

See Sulfanilamide

1-AMINOBUTANE

See Butylamine, 99%

1-AMINO-3-BUTYNE

See 3-Butynylamine, 97%

2-AMINOETHANOL, REAGENT (ACS) — ITEM 622

$H_2NCH_2CH_2OH$ F.W. 61.09

Assay 99.0% min. Heavy metals 0.0005%
Iron 0.0005% Color (APHA) 15 max.
Water 0.30%

CAS # 141-43-5 DOT 8/III NFPA # 2-2-0

12001	500 ML
12002	2.5 L
12004	6 X 500 ML
12005	4 X 2.5 L

Specific Gravity 1.012

1-AMINO-5-HEXENE, 98% — ITEM 5529

5-Hexenylamine. Not on the TSCA inventory.

$H_2C=CH(CH_2)_4NH_2$ F.W. 99.17

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
H2O (KF), 2.0% max Color - Colorless to yellow
Clarity / Form - Clear, liquid

CAS # 34825-70-2 DOT 8/3/II NFPA # 3-3-0

17651	5 G
17652	25 G
17653	100 G
17654	500 G
17655	3 KG
17656	15 KG
17657	45 KG

Specific Gravity 0.791

6-AMINO-1-HEXYNE

See 5-Hexynylamine

2-AMINO-2-HYDROXYMETHYL-1,3-PROPANEDIOL

See Trishydroxymethylaminomethane

4-AMINO-3-HYDROXY-1-NAPHTHALENESULFONIC ACID

See 1-Amino-2-Naphthol-4-Sulfonic Acid

AMINOMETHANE

See Methylamine, 40%

3-AMINO-3-METHYL-1-BUTYNE, 95% — ITEM 3395

1,1-Dimethylpropargylamine

$HC\equiv CH_2C(CH_3)_2NH_2$ F.W. 83.13

Assay (GC-FID), 94% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 2978-58-7 DOT 3/8/II

83931	5 G
83932	25 G
83933	250 G
83934	1 KG

Specific Gravity 0.790

A

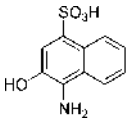
1-AMINO-2-NAPHTHOL-4-SULFONIC ACID, REAGENT (ACS) ITEM 836

$H_2N(OH)C_{10}H_5SO_3H$ F.W. 239.26

Assay 90.0% min.
Residue after ignition 0.1%
Sulfate 0.2%
Solubility in sodium carbonate - pass test
Sensitivity to phosphate - pass test

CAS # 116-63-2 DOT NR

12071	25 G
12072	100 G



5-AMINO-1-PENTYNE

See 4-Pentynylamine, 97%

2-AMINOPHENOL ITEM 5288

$NH_2C_6H_4OH$ F.W. 109.13

CAS # 95-55-6 DOT 6.1/III

Please Inquire For Sizes

3-AMINO-1-PROPYNE

See Propargylamine

1-AMINO-10-UNDECENE, 97% ITEM 3437

Not on the TSCA inventory.

$H_2C=CH(CH_2)_9NH_2$ F.W. 169.31

Assay (GC-FID), 96.5% min
Color - Colorless to pale yellow
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 62595-52-2 DOT 9/III

12241	10 G
12242	50 G
12243	250 G

Specific Gravity 0.809

AMMONIA BORANE, REAGENT ITEM 5372

Not on the TSCA inventory. Not intended for fuel cell use.

H_3NBH_3 F.W. 30.87

Assay (Titration) 95.0-105.0%
Proton NMR - Conforms to structure

CAS # 13774-81-7 DOT NR NFPA # 0-0-1

16641	1 G
16644	10 G
16645	100 G

AMMONIACAL BUFFER, pH 10, FOR EDTA TITRATIONS ITEM 2285

Ammonium Hydroxide-Ammonium Chloride Buffer. Prepared according to REAGENT CHEMICALS, ACS SPECIFICATIONS.

NH_4OH+NH_4Cl

pH of 1:10 dilution 10.0±0.3

DOT 8/III NFPA # 2-0-0

12251	500 ML
12253	6 X 500 ML
12252	4 L
12254	4 X 4 L
12255	20 L

Specific Gravity 0.984

AMMONIA SOLUTION

See Ammonium Hydroxide, Reagent (ACS)

AMMONIUM, 1000 ppm STANDARD SOLUTION ITEM 738

IC, colorimetric or volumetric standard

Concentration (as NH4) 1,000 ± 10 ug/ml
Traceable to NIST
Matrix: chloride salt in water

DOT NR

70010	100 ML
70012	500 ML

Specific Gravity 1.010

AMMONIUM ACETATE, BIO-REFINED™ ITEM 1901

CH_3COONH_4 F.W. 77.08

Assay 99.0% min.
KMnO4 reducing substances 0.005%
Water 1.0% max.
Chloride(Cl) 0.0005%
Sulfate(SO4) 0.001%
Residue on ignition 0.01%
pH(1M in H2O) 6.5-7.5
Insoluble matter 0.005%
Nitrate(NO3) 0.001%
Absorbance (1M in H2O) @ 260 nm <0.01

Absorbance (1M in H2O) @ 280 nm <0.007

Al 5 ppm	Ba 5 ppm	Bi 5 ppm
Ca 10 ppm	Cd 5 ppm	Co 5 ppm
Cr 5 ppm	Cu 5 ppm	Fe 2 ppm
K 50 ppm	Li 5 ppm	Mg 5 ppm
Mn 5 ppm	Mo 5 ppm	Na 50 ppm
Ni 5 ppm	Pb 5 ppm	Sr 5 ppm
Zn 5 ppm		

CAS # 631-61-8 DOT NR

12411	500 G
12412	2.5 KG

AMMONIUM ACETATE, REAGENT (ACS) ITEM 547

CH_3COONH_4 F.W. 77.08

Assay 97% min.
Residue after ignition 0.01%
Nitrate 0.001%
Heavy metals (Pb) 0.0005%
pH of 5% solution 6.7-7.3 @ 25 C
Insoluble 0.005%
Chloride 0.0005%
Sulfate 0.001%
Iron 0.0005%

CAS # 631-61-8 DOT NR NFPA # 1-1-1

12401	500 G
12402	2.5 KG
12403	10 KG
12404	50 KG

AMMONIUM ACETATE SOLUTION, 10%, AQUEOUS ITEM 2405

Iron and copper free.

CH_3COONH_4 F.W. 77.08

DOT NR

12421	500 ML
12424	6 X 500 ML
12423	4 L
12426	4 X 4 L

Specific Gravity 1.000

AMMONIUM ALUM

See Aluminum Ammonium Sulfate, Dodecahydrate

AMMONIUM ALUMINUM SULFATE

See Aluminum Ammonium Sulfate, Dodecahydrate

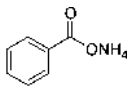
AMMONIUM BENZOATE, REAGENT (ACS) ITEM 2343

$C_6H_5CO_2NH_4$ F.W. 139.16

Assay 98.0% min.
Insoluble matter 0.005%
Substances reducing permanganate - pass test
Heavy Metals (as Pb) 0.001%
pH of 5% solution 5.0-8.0 @ 25 C
Residue after ignition 0.005%
Chlorine compounds (as Cl) 0.01%
Iron (Fe) 0.001%

CAS # 1863-63-4 DOT NR

12390	100 G
12391	500 G



AMMONIUM BICARBONATE, REAGENT ITEM 837

NH_4HCO_3 F.W. 79.06

Assay 99%
Residue on ignition 0.005%
Sulfate 0.001%
Iron 0.0005%
Insoluble 0.005%
Chloride 0.0005%
Heavy Metals 0.0005%

CAS # 1066-33-7 DOT NR NFPA # 1-0-1

12431	500 G
12432	2.5 KG
12433	10 KG
12434	50 KG

AMMONIUM BIFLUORIDE, TECHNICAL ITEM 1134

NH_4HF_2 F.W. 57.04

Assay 98% min.

CAS # 1341-49-7 DOT 8/II NFPA # 3-0-2

12441	500 G
12442	2.5 KG
12443	10 KG
12444	50 KG

AMMONIUM BROMIDE, REAGENT (ACS) ITEM 838

NH_4Br F.W. 97.94

Assay 99.0% min.
Insoluble 0.005%
Bromate 0.002%
Iodide - pass test
Barium 0.002%
Iron 0.0005%
pH of 5% solution 4.5-6.0 @25C
Residue after ignition 0.01%
Chloride 0.2%
Sulfate 0.005%
Heavy Metals (Pb) 0.0005%

CAS # 12124-97-9 DOT NR NFPA # 1-0-0

12450	100 G
12451	500 G
12452	2.5 KG

AMMONIUM BROMIDE, 99%, PHOTO GRADE ITEM 3660

NH_4Br F.W. 97.94

Assay 99%

CAS # 12124-97-9 DOT NR

12461	500 G
12462	2.5 KG

AMMONIUM CARBONATE, REAGENT (ACS), LUMPS ITEM 839

Assay (as NH3) 30.0% min.
Nonvolatile matter 0.01%
Sulfur compounds (SO4) 0.002%
Iron 0.0005%
Insoluble 0.005%
Chloride 0.0005%
Heavy Metals (by ICP-OES) 0.0005%

CAS # 506-87-6 DOT NR NFPA # 1-0-1

12471	500 G
12472	2.5 KG
12473	10 KG

AMMONIUM CERIC NITRATE

See Ceric Ammonium Nitrate

AMMONIUM CERIC SULFATE

See Ceric Ammonium Sulfate, Dihydrate

AMMONIUM CHLORIDE, 99.999% ITEM 5003

NH_4Cl F.W. 53.49

Assay (metals basis) 99.999% min Assay 99.5% min.
Appearance - white crystals

CAS # 12125-02-9 DOT NR NFPA # 1-0-1

87001	10 G
87002	50 G
87004	500 G

AMMONIUM CHLORIDE, BIO-REFINED™ ITEM 1902

NH_4Cl F.W. 53.49

Assay 99.0% min. pH (1M in H2O) 4.5-5.5
Water 1.0% max. Insoluble matter 0.005%
Phosphate(PO4) 0.0002% Nitrate(NO3) 0.0005%
Sulfate(SO4) 0.002% Absorbance (1M in H2O) @ 260 nm <0.021
Absorbance (1M in H2O) @ 280 nm <0.019

Al 5 ppm	Ba 5 ppm	Bi 5 ppm
Ca 10 ppm	Cd 5 ppm	Co 5 ppm
Cr 5 ppm	Cu 2 ppm	Fe 2 ppm
K 50 ppm	Li 5 ppm	Mg 5 ppm
Mn 5 ppm	Mo 5 ppm	Na 50 ppm
Ni 1 ppm	Pb 1 ppm	Sr 5 ppm
Zn 2 ppm		

CAS # 12125-02-9 DOT NR

12491	500 G

AMMONIUM CHLORIDE, LOW NITRATE, REAGENT (ACS) ITEM 6451

NH_4Cl F.W. 53.49

Assay 99.5% min. Insoluble 0.005%
Residue after ignition 0.01% pH of 5% solution 4.5-5.5 @25C
Phosphate 0.0002% Sulfate 0.002%
Calcium 0.001% Magnesium 0.0005%
Heavy Metals (by ICP-OES) 0.0005% Iron 0.0002%
Nitrate 0.0001%

CAS # 12125-02-9 DOT NR

12481	500 G
12482	2.5 KG

AMMONIUM CHLORIDE, REAGENT (ACS) ITEM 645

NH_4Cl F.W. 53.49

Assay 99.5% min. pH of 5% solution 4.5-5.5 @ 25 C
Insoluble 0.005% Residue after ignition 0.01%
Phosphate 0.0002% Sulfate 0.002%
Calcium 0.001% Magnesium 0.0005%
Heavy Metals (by ICP-OES) 0.0005% Iron 0.0002%

CAS # 12125-02-9 DOT NR NFPA # 1-0-0

12501	500 G
12502	2.5 KG
12503	10 KG
12504	50 KG
12505	100 KG
12506	500 KG

AMMONIUM CHLORIDE-EDTA REAGENT SOLUTION ITEM 2020

For Nitrogen Stock Solution

Suitability Pass Test Nitrate plus nitrite 1 ppm

DOT NR

24191	500 ML
24192	4 L

AMMONIUM CHLOROPLATINATE

See Ammonium Hexachloroplatinate (IV)

AMMONIUM CHLOROSTANNATE

See Ammonium Hexachlorostannate (IV)

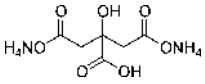
AMMONIUM CITRATE, DIBASIC, REAGENT (ACS) ITEM 840

$(NH_4)_2HC_6H_5O_7$ F.W. 226.19

Assay 98.0-103.0% Insoluble 0.005%
Residue after ignition 0.01% Chloride 0.001%
Oxalate - pass test Phosphate 0.0005%
Sulfur compounds (as SO4) 0.005% Heavy metals (Pb) 0.0005%
Iron 0.001%

CAS # 3012-65-5 DOT NR NFPA # 1-1-0

12520	100 G
12521	500 G
12522	2.5 KG
12523	10 KG
12524	50 KG



AMMONIUM CITRATE, TRIBASIC ITEM 5268

Granular.

$(NH_4)_3C_6H_5O_7$ F.W. 243.22

Assay 98% min.
Chloride 10 ppm
Chromium 1 ppm
pH (10% solution) 6.5 - 8.5
Iron 1 ppm
Lead 1 ppm

CAS # 3458-72-8 DOT NR

14511	50 G
14512	250 G
14513	1 KG

AMMONIUM COBALTOMOLYBDATE

See Ammonium Molybdocobaltate

AMMONIUM COBALT SULFATE

See Cobalt Ammonium Sulfate Hexahydrate

AMMONIUM DICHROMATE, 99.999% ITEM 5023

$(NH_4)_2Cr_2O_7$ F.W. 252.08

Assay (metals basis) 99.999% min.

CAS # 7789-09-5 DOT 5.1/II NFPA # 2-1-1

87191	5 G
87192	25 G

AMMONIUM DICHROMATE, REAGENT (ACS) ITEM 773

$(NH_4)_2Cr_2O_7$ F.W. 252.08

Assay (dried basis) 99.5% min.
Loss on drying @ 105 C - 3.0%
Sulfate 0.01%
Iron 0.002%
Insoluble Matter 0.005%
Chloride 0.005%
Calcium 0.002%
Sodium 0.005%

CAS # 7789-09-5 DOT 5.1/II NFPA # 2-1-1

12553	100 G
12551	500 G
12552	2.5 KG

AMMONIUM DIHYDROGEN PHOSPHATE

See Ammonium Phosphate, Monobasic

AMMONIUM DIMOLYBDATE

See Molybdic Acid, 85%

AMMONIUM EDTA

See Diammonium Dihydrogen Ethylenediaminetetraacetate, Hydrate

AMMONIUM FERRIC CITRATE

See Ferric Ammonium Citrate

AMMONIUM FERRIC SULFATE

See Ferric Ammonium Sulfate, Dodecahydrate

AMMONIUM FERROUS SULFATE

See Ferrous Ammonium Sulfate

AMMONIUM FLUORIDE, REAGENT (ACS) ITEM 841

NH_4F F.W. 37.04

Assay 98.0% min.
Residue after ignition 0.01%
Sulfate 0.005%
Iron 0.0005%
Insoluble 0.005%
Chloride 0.001%
Heavy metals (as Pb) 0.0005%

CAS # 12125-01-8 DOT 6.1/III NFPA # 3-0-0

12583	100 G
12581	500 G
12584	2.5 KG

AMMONIUM FLUOROBORATE

See Ammonium Tetrafluoroborate, 97%

AMMONIUM FLUOROPHOSPHATE

See Ammonium Hexafluorophosphate

AMMONIUM FLUOROSILICATE

See Ammonium Hexafluorosilicate

AMMONIUM FORMATE, REAGENT ITEM 599

$HCOONH_4$ F.W. 63.06

Assay 98.5% min.
Residue after ignition 0.01%
Chloride 0.001%
Heavy metals(Pb) 0.0005%
Insoluble 0.005%
Sulfate 0.002%
Iron 0.0002%

CAS # 540-69-2 DOT NR NFPA # 2-1-0

12600	100 G
12601	500 G
12602	2.5 KG
12603	10 KG
12604	50 KG

AMMONIUM GADOLINIUM SULFATE

See Gadolinium Ammonium Sulfate, 99.9%

AMMONIUM HEPTAFLUOROTANTALATE, 99.99% ITEM 5072

$(NH_4)_2TaF_7$ F.W. 350.07

Assay (metals basis) 99.99% min.

CAS # 12022-02-5 DOT NR

87681	5 G

AMMONIUM HEPTAMOLYBDATE TETRAHYDRATE

See Ammonium Molybdate

AMMONIUM HEXACHLOROPLATINATE (IV), 99.999% ITEM 5061

$(NH_4)_2PtCl_6$ F.W. 443.89

Assay (metals basis) 99.999% min.

CAS # 16919-58-7 DOT NR

87571	250 MG
87572	1 G

AMMONIUM HEXACHLOROPLATINATE (IV) ITEM A0315

44% Platinum

$(NH_4)_2PtCl_6$ F.W. 443.89

CAS # 16919-58-7 DOT NR

12701	1 G
12702	5 G

AMMONIUM HEXACHLORORHODATE (III), 99.99+% ITEM 5067

$(NH_4)_3RhCl_6$

Assay (metals basis) 99.99+% min.

CAS # 15336-18-2 DOT NR

87631	250 MG
87632	1 G

AMMONIUM HEXACHLOROSTANNATE (IV) ITEM A0324

$(NH_4)_2SnCl_6$ F.W. 367.49

CAS # 16960-53-5 DOT NR

12721	5 G

AMMONIUM HEXAFLUOROGERMANATE, 99.99+% ITEM 5110

$(NH_4)_2GeF_6$ F.W. 222.66

Assay (metals basis) 99.99+% min. Germanium content 31.5-33.5%

CAS # 16962-47-3 DOT NR

Please Inquire For Sizes

AMMONIUM HEXAFLUOROPHOSPHATE, 99.99% ITEM 5085

NH_4PF_6 F.W. 163.00

Assay (metals basis) 99.99% min.

CAS # 16941-11-0 DOT NR

87811	5 G
87812	25 G
87813	100 G

AMMONIUM HEXAFLUOROPHOSPHATE, 99.9% ITEM 1298

NH_4PF_6 F.W. 163.00

Assay (metals basis) 99.9% min. Assay (as F) 69% min

CAS # 16941-11-0 DOT NR

12741	25 G

AMMONIUM HEXAFLUOROSILICATE, 99.999% ITEM 5069

$(NH_4)_2SiF_6$ F.W. 178.16

Assay (metals basis) 99.999% min.

CAS # 16919-19-0 DOT 6.1/III

87651	5 G
87652	25 G
87653	100 G

AMMONIUM HEXAFLUOROSILICATE ITEM A0351

$(NH_4)_2SiF_6$ F.W. 178.16

Identity Pass Test Assay (Report)

CAS # 16919-19-0 DOT 6.1/III

12781	500 G
12782	2.5 KG
12783	10 KG
12784	50 KG

AMMONIUM HEXAFLUOROTITANATE, 99.99+% ITEM 5074

$(NH_4)_2TiF_6$ F.W. 197.97

Assay (metals basis) 99.99+% min.

CAS # 16962-40-6 DOT NR

87701	5 G
87702	25 G
87703	100 G

AMMONIUM HEXANITRATOCERATE

See Ceric Ammonium Nitrate

AMMONIUM HYDROGEN PHOSPHATE

See Ammonium Phosphate, Dibasic

AMMONIUM HYDROXIDE, ENVIRONMENTAL GRADE — ITEM 2590

Similar to Redistilled grade with guaranteed trace metal specifications. Packed in HDPE bottles to minimize boron and silicon contamination.

NH_4OH F.W. 35.05

Assay 28-30% NH3
Chloride 0.00001%
Sulfur 0.00002%
Arsenic 0.0000001%
Residue after ignition 0.0001%
Phosphate 0.00002%
Nitrate 0.0002%
Boron 0.0000005%

Ag 1 ppb	Al 1 ppb	Au 1 ppb
Ba 1 ppb	Be 1 ppb	Bi 1 ppb
Ca 1 ppb	Cd 1 ppb	Ce 1 ppb
Co 1 ppb	Cr 1 ppb	Cs 1 ppb
Cu 1 ppb	Dy 1 ppb	Er 1 ppb
Eu 1 ppb	Fe 1 ppb	Ga 1 ppb
Gd 1 ppb	Ge 1 ppb	Hf 1 ppb
Hg 1 ppb	Ho 1 ppb	In 1 ppb
Ir 1 ppb	K 1 ppb	La 1 ppb
Li 1 ppb	Lu 1 ppb	Mg 1 ppb
Mn 1 ppb	Mo 1 ppb	Na 5 ppb
Nd 1 ppb	Ni 1 ppb	Os 1 ppb
Pb 1 ppb	Pd 1 ppb	Pr 1 ppb
Pt 1 ppb	Rb 1 ppb	Rh 1 ppb
Ru 1 ppb	Sb 1 ppb	Sc 1 ppb
Se 1 ppb	Sm 1 ppb	Sn 1 ppb
Sr 1 ppb	Tb 1 ppb	Te 1 ppb
Th 1 ppb	Ti 1 ppb	U 1 ppb
V 1 ppb	W 1 ppb	Y 1 ppb
Yb 1 ppb	Zn 1 ppb	Zr 1 ppb

CAS # 1336-21-6 DOT 8/III NFPA # 3-1-2

12861	500 ML
12862	6 X 500 ML
12863	2 L
12864	4 X 2 L
12865	6 X 2 L

Specific Gravity 0.900

AMMONIUM HYDROXIDE, VERITAS® REDISTILLED — ITEM 810

Trace metal grade. Low ppb metal impurities. Note: Results reported at time of bottling in glass. The levels of Al, B, Ca, K, Mg, Mn, Na and Si will increase over time.

NH_4OH F.W. 35.05

Assay 28-30% NH3
Chloride 0.00001%
Sulfur 0.00002%
Iron 0.0000005%
Residue after ignition 0.0001%
Phosphate 0.00002%
Heavy Metals (Pb) 0.000001%
Nitrate 0.0002%

Al 1 ppb	Ag 1 ppb	As 1 ppb
Au 1 ppb	B 5 ppb	Ba 1 ppb
Be 1 ppb	Bi 1 ppb	Cd 1 ppb
Ce 1 ppb	Cr 1 ppb	Cs 1 ppb
Cu 1 ppb	Dy 1 ppb	Er 1 ppb
Eu 1 ppb	Fe 5 ppb	Ga 1 ppb
Gd 1 ppb	Ge 1 ppb	Hg 1 ppb
Ho 1 ppb	In 1 ppb	Ir 1 ppb
K 1 ppb	La 1 ppb	Li 1 ppb
Lu 1 ppb	Mg 1 ppb	Mn 1 ppb
Mo 1 ppb	Na 5 ppb	Nd 1 ppb
Ni 1 ppb	Pb 1 ppb	Pd 1 ppb
Pr 1 ppb	Pt 1 ppb	Rb 1 ppb
Rh 1 ppb	Ru 1 ppb	Sb 1 ppb
Sc 1 ppb	Se 1 ppb	Si 5 ppb
Sm 1 ppb	Sn 1 ppb	Sr 1 ppb
Tb 1 ppb	Te 1 ppb	Ti 1 ppb
U 1 ppb	V 1 ppb	W 1 ppb
Y 1 ppb	Yb 1 ppb	Zn 1 ppb
Zr 1 ppb	Ca 5 ppb	Co 1 ppb

CAS # 1336-21-6 DOT 8/III NFPA # 3-1-0

12822	500 ML
12821	6 X 500 ML
12823	2.5 L
12825	4 X 2.5 L
12824	6 X 2.5 L
12826	2.5 L PVC
12827	6X2.5L PVC

Specific Gravity 0.900

AMMONIUM HYDROXIDE, SUPERIOR REAGENT (ACS) — ITEM 2584

Metals analysis reported on certificate in ppm.

NH_4OH F.W. 35.05

Assay 28.0-30.0% NH3
Carbon dioxide 0.002%
Phosphate 0.0002%
Heavy metals (as Pb) 0.00005%
Substances reducing permanganate - Pass test
Colorless & free from suspended matter or sediment
Residue after ignition 0.002%
Chloride 0.00005%
Sulfur (as SO4) 0.0002%
Iron 0.00002%
Nitrate 0.0002%

Ag 0.1 ppm	Al 0.1 ppm	Au 0.1 ppm
Ba 0.1 ppm	Ca 0.3 ppm	Cd 0.1 ppm
Co 0.1 ppm	Cr 0.1 ppm	Cu 0.1 ppm
Hg 0.1 ppm	K 0.3 ppm	Li 0.1 ppm
Mg 0.3 ppm	Mn 0.1 ppm	Mo 0.1 ppm
Na 0.3 ppm	Ni 0.1 ppm	Pb 0.1 ppm
Sr 0.1 ppm	Zn 0.1 ppm	

CAS # 1336-21-6 DOT 8/III NFPA # 3-1-0

12851	500 ML
12852	6 X 500 ML
12853	2.5 L
12854	4 X 2.5 L
12855	6 X 2.5 L

Specific Gravity 0.900

AMMONIUM HYDROXIDE, REAGENT (ACS) ITEM 811

NH_4OH F.W. 35.05

Assay 28.0-30.0% NH3
Carbon dioxide 0.002%
Phosphate 0.0002%
Heavy metals (as Pb) 0.00005%
Substances reducing permanganate Pass Test
Colorless & free from suspended matter or sediment
Residue after ignition 0.002%
Chloride 0.00005%
Sulfur (as SO4) 0.0002%
Iron 0.00002%
Nitrate 0.0002%

CAS # 1336-21-6 DOT 8/III NFPA # 3-1-0

12801	500 ML
12803	6 X 500 ML
12802	2.5 L
12805	6 X 2.5 L
12806	2.5 L PVC
12808	6X2.5L PVC
12809	20 L
12810	50 L

Specific Gravity 0.900

AMMONIUM HYDROXIDE SOLUTION, 6 N ITEM 9782

NH_4OH

Concentration 6.00 ± 0.01 N

CAS # 1336-21-6 DOT 8/III

19231	500 ML
19232	4 L

AMMONIUM HYDROXIDE SOLUTION, 1 N ITEM 3553

1 mol/L

NH_4OH F.W. 35.03

Concentration 1.00 ± 0.05 N

CAS # 1336-21-6 DOT NR

12871	1 L
12872	6 X 1 L

Specific Gravity 0.980

AMMONIUM HYDROXIDE SOLUTION, 10% V/V ITEM 1136

Reagent Grade

NH_4OH F.W. 35.05

Concentration 10.0 ± 0.5%

CAS # 1336-21-6 DOT NR NFPA # 3-1-2

12812	2.5 L

Specific Gravity 0.960

AMMONIUM IODATE, REAGENT ITEM 601

NH_4IO_3 F.W. 192.94

Assay 99.0% min.
Other halogens 0.01%
Sulfate 0.005%
Heavy Metals 0.0005%
Insoluble 0.005%
Iodide 0.001%
Iron 0.001%

CAS # 13446-09-8 DOT 5.1/II NFPA # 2-0-3

12901	100 G
12902	500 G

AMMONIUM IODIDE, REAGENT (ACS) ITEM 842

NH_4I F.W. 144.94

Assay 99.0% min.
Residue after ignition 0.05%
Phosphate 0.001%
Barium 0.002%
Iron 0.0005%
Insoluble 0.005%
Chloride and bromide (as Cl) 0.005%
Sulfate 0.05%
Heavy metals (as Pb) 0.001%

CAS # 12027-06-4 DOT NR NFPA # 2-0-1

12911	100 G
12912	500 G
12913	2.5 KG
12914	10 KG

AMMONIUM META-VANADATE, 99.995% ITEM 5078

NH_4VO_3 F.W. 116.98

Assay (metals basis) 99.995% min

CAS # 7803-55-6 DOT 6.1/II NFPA # 3-0-1

87741	1 G
87742	5 G
87743	25 G

AMMONIUM META-VANADATE, REAGENT (ACS) ITEM 1139

NH_4VO_3 F.W. 116.98

Assay 99.0% min
Carbonate - Pass Test
Sulfate 0.05%
Solubility in ammonium hydroxide - Pass Test
Chloride 0.2%
WHITE TO BROWN CRYSTAL PWDR W/BLACK VANADIUM SPECS

CAS # 7803-55-6 DOT 6.1/II NFPA # 3-0-1

13451	100 G
13452	500 G
13453	2.5 KG
13454	10 KG
13455	50 KG

AMMONIUM MOLYBDATE, 99.99+% ITEM 5049

Diammonium Molybdate

$(NH_4)_2MoO_4$ F.W. 196.02

Assay (metals basis) 99.99+% min.

CAS # 13106-76-8 DOT NR NFPA # 2-0-1

87451	1 G
87452	10 G
87453	50 G

AMMONIUM MOLYBDATE, REAGENT (ACS) ITEM 774

$(NH_4)_6Mo_7O_{24}•4H_2O$ F.W. 1235.86

Assay (as MoO3) 81.0-83.0%
Chloride 0.002%
Arsenate, phosphate, and silicate 0.001%
Sulfate 0.02%
Magnesium 0.005%
Sodium 0.01%
Insoluble 0.005%
Nitrate - Pass Test
Phosphate 0.0005%
Heavy metals (as Pb) 0.001%
Potassium 0.01%

CAS # 12054-85-2 DOT NR NFPA # 2-0-1

12957	100 G
12951	500 G
12952	2.5 KG
12953	10 KG
12954	50 KG

AMMONIUM MOLYBDATE SOLUTION, 4% ITEM 2024

For Phosphate by Ascorbic Acid (APHA) method.

$(NH_4)_6Mo_7O_{24}•4H_2O$ F.W. 1235.86

Concentration 4% w/v

CAS # 12054-85-2 DOT NR

24231	500 ML
24232	6 X 500 ML

Specific Gravity 1.000

AMMONIUM MOLYBDOCOBALTATE ITEM 5355

Not on the TSCA inventory.

$(NH_4)_3H_6CoMo_6O_{24}$ F.W. 1078.72

CAS # 12139-65-0 DOT NR

Please Inquire For Sizes

AMMONIUM NICKEL SULFATE

See Nickel Ammonium Sulfate

AMMONIUM NITRATE, 99.999% ITEM 5127

NH_4NO_3 F.W. 80.04

Assay (metals basis) 99.999%

CAS # 6484-52-2 DOT 5.1/III

88081	10 G
88082	50 G

AMMONIUM NITRATE, BIO-REFINED™ ITEM 1905

NH_4NO_3 F.W. 80.04

Assay 99.0% min.
Residue after ignition 0.01%
Loss on drying 0.5%
Chloride 0.0003%
Phosphate 0.0005%
Absorbance @ 330nm (1M in H2O) - cut off
pH(1M in H2O) 4.5-6.0
KMnO4 reducing substances 0.005%
Insoluble matter 0.005%
Nitrite(NO2) 0.0005%
Sulfate 0.002%

Al 5 ppm
Ca 10 ppm
Cr 5 ppm
K 50 ppm
Mn 5 ppm
Ni 5 ppm
Zn 5 ppm
Ba 5 ppm
Cd 5 ppm
Cu 5 ppm
Li 5 ppm
Mo 5 ppm
Pb 5 ppm
Bi 5 ppm
Co 5 ppm
Fe 2 ppm
Mg 5 ppm
Na 50 ppm
Sr 5 ppm

CAS # 6484-52-2 DOT 5.1/III

13021	500 G

AMMONIUM NITRATE, REAGENT (ACS) ITEM 646

NH_4NO_3 F.W. 80.04

Assay 95.0% min.
Insoluble 0.005%
pH of 5% solution 4.5-6.0 @ 25 C
Nitrite Pass test
Sulfate 0.002%
Iron 0.0002%
Residue after ignition 0.01%
Chloride 0.0005%
Phosphate 0.0005%
Heavy Metals (by ICP-OES) 0.0005%

CAS # 6484-52-2 DOT 5.1/III NFPA # 1-0-3

13001	500 G
13002	2.5 KG
13003	10 KG
13004	50 KG
13006	136 KG
13007	544 KG
13008	1088 KG

AMMONIUM NITRATE, COATED, PRILLED ITEM 1080

NH_4NO_3 F.W. 80.04

Assay 98.5% min
Coating 0.07-0.15%

CAS # 6484-52-2 DOT 5.1/III

13031	2.5 KG
13032	10 KG
13033	50 KG
13034	136 KG

AMMONIUM OXALATE, REAGENT (ACS) ITEM 715

$(NH_4)_2C_2O_4•H_2O$ F.W. 142.11

Assay 99.0-101.0%
Residue after ignition 0.02%
Sulfate 0.002%
Iron 0.0002%
Insoluble 0.005%
Chloride 0.002%
Heavy Metals (Pb) 0.0005%

CAS # 6009-70-7 DOT NR NFPA # 3-0-1

13106	100 G
13101	500 G
13102	2.5 KG
13103	10 KG
13104	50 KG

AMMONIUM OXALATE SOLUTION, 5% W/V — ITEM 2027

Reagent Grade Solution

$(NH_4)_2C_2O_4 \bullet H_2O$ F.W. 142.11

Concentration 5±0.5% (W/V)

CAS # 6009-70-7 DOT NR

24261	4 L

Specific Gravity 1.000

AMMONIUM PARATUNGSTATE, 99.999%, Soluble form — ITEM 5075

$(NH_4)_{10}W_{12}O_{41} \bullet 5H_2O$ F.W. 3042.56

Assay (metals basis) 99.999% min.

CAS # 11120-25-5 DOT NR

87711	5 G
87712	25 G

AMMONIUM PARATUNGSTATE, 99.9% — ITEM 1304

$(NH_4)_{10}W_{12}O_{41} \bullet 5H_2O$ F.W. 3042.56

Assay (metals basis) 99.9% min

CAS # 11120-25-5 DOT NR

13431	50 G

AMMONIUM PERCHLORATE, REAGENT — ITEM 3

NH_4ClO_4 F.W. 117.50

Insoluble 0.005%
Sulfate 0.001%
Heavy metals (as Pb) 0.0005%
Chloride + Chlorate 0.003%
Iron 0.0005%
pH of 5% solution 4.0-6.0 @ 25 C

CAS # 7790-98-9 DOT 5.1/II NFPA # 2-0-3

13200	100 G
13201	500 G
13202	2.5 KG
13203	10 KG
13204	50 KG
13205	100 KG
13206	500 KG

AMMONIUM PEROXYDISULFATE

See Ammonium Persulfate, Reagent (ACS)

AMMONIUM PERRHENATE — ITEM A0423

NH_4ReO_4 F.W. 268.25

Assay 99% min.

CAS # 13598-65-7 DOT 5.1/II

12981	10 G

AMMONIUM PERSULFATE, REAGENT (ACS) — ITEM 843

Ammonium Peroxydisulfate

$(NH_4)_2S_2O_8$ F.W. 228.19

Assay 98.0% min
Residue after ignition 0.05%
Chloride + Chlorate 0.001%
Iron 0.001%
Insoluble 0.005%
Titrable free acid 0.04 meq/g
Heavy Metals (Pb) 0.005%
Manganese 0.00005%

CAS # 7727-54-0 DOT 5.1/III NFPA # 1-0-1

13220	100 G
13221	500 G
13222	2.5 KG
13223	10 KG

AMMONIUM PHOSPHATE, DIBASIC, BIO-REFINED™ — ITEM 1904

$(NH_4)_2HPO_4$ F.W. 132.06

Assay 99.0% min.
Water 1.0% max.
Chloride 0.0005%
Sulfate 0.002%
pH(1M in H2O) 7.5-9.0
Insoluble matter 0.005%
Nitrate 0.001%
Absorbance (1M in H2O) @ 260 nm <0.065
Absorbance (1M in H2O) @ 280 nm <0.065

Al 5 ppm
Bi 5 ppm
Co 5 ppm
Fe 5 ppm
Mg 5 ppm
Na 50 ppm
Sr 5 ppm
As 1 ppm
Ca 10 ppm
Cr 5 ppm
K 50 ppm
Mn 5 ppm
Ni 5 ppm
Zn 5 ppm
Ba 5 ppm
Cd 5 ppm
Cu 5 ppm
Li 5 ppm
Mo 5 ppm
Pb 5 ppm

CAS # 7783-28-0 DOT NR

13191	500 G
13192	2.5 KG

AMMONIUM PHOSPHATE, DIBASIC, REAGENT (ACS) — ITEM 844

$(NH_4)_2HPO_4$ F.W. 132.06

Assay 98.0% min
pH of 5% solution 7.7-8.1 @ 25 C
Nitrate 0.003%
Heavy metals (as Pb) 0.001%
Calcium 0.001%
Potassium 0.005%
Insoluble 0.005%
Chloride 0.001%
Sulfate 0.01%
Iron 0.001%
Magnesium 0.0005%
Sodium 0.005%

CAS # 7783-28-0 DOT NR NFPA # 1-0-1

13240	100 G
13241	500 G
13242	2.5 KG
13243	10 KG
13244	50 KG

AMMONIUM PHOSPHATE, MONOBASIC, 99.999% — ITEM 5103

$(NH_4)H_2PO_4$ F.W. 115.03

Assay (metals basis) 99.999% min.

CAS # 7722-76-1 DOT NR

87991	10 G	**$43.40**
87992	50 G	**91.10**
87993	250 G	**283.80**

AMMONIUM PHOSPHATE, MONOBASIC, 99.998% ITEM 5660

$(NH_4)H_2PO_4$ F.W. 115.03

Assay (metals basis) 99.998% min.

CAS # 7722-76-1 DOT NR

21231	10 G
21232	50 G
21233	250 G

AMMONIUM PHOSPHATE, MONOBASIC, BIO-REFINED™ ITEM 1903

$NH_4H_2PO_4$ F.W. 115.03

Assay 99.5% min.
Water 1.0% max.
Chloride 0.005%
Absorbance (1M in H2O) @ 260 nm <0.059
pH(1M in H2O) 4.0-5.0
Insoluble matter 0.005%
Sulfate 0.005%
Absorbance (1M in H2O) @ 280 nm <0.050

CAS # 7722-76-1 DOT NR

13233	100 G
13231	500 G
13232	2.5 KG

AMMONIUM PHOSPHATE, MONOBASIC, REAGENT (ACS) ITEM 845

$NH_4H_2PO_4$ F.W. 115.03

Assay 98.0% min.
Insoluble 0.005%
Nitrate 0.001%
Heavy Metals 0.0005%
Calcium 0.001%
Potassium 0.005%
pH of 5% solution 3.8-4.4 25C
Chloride 0.0005%
Sulfate 0.01%
Iron 0.001%
Magnesium 0.0005%
Sodium 0.005%

CAS # 7722-76-1 DOT NR NFPA # 1-0-1

13250	100 G
13251	500 G
13252	2.5 KG
13253	10 KG
13254	50 KG

AMMONIUM PHOSPHATE, MONOBASIC ITEM 3659

$NH_4H_2PO_4$ F.W. 115.03

Assay 97%

CAS # 7722-76-1 DOT NR

13181	250 G
13182	1 KG
13183	5 KG

AMMONIUM PHOSPHOMOLYBDATE ITEM A0438

$(NH_4)_3PO_4 \bullet 12MoO_3 \bullet xH_2O$

P:Mo/1:12

CAS # 12026-66-3 DOT NR

13261	100 G

AMMONIUM PURPURATE

See Murexide

AMMONIUM REINECKATE

See Reinecke Salt

AMMONIUM SODIUM PHOSPHATE

See Sodium Ammonium Phosphate

AMMONIUM SULFAMATE, REAGENT (ACS) ITEM 847

$NH_4SO_3NH_2$ F.W. 114.11

Assay 98.0% min.
Insoluble 0.02%
Heavy Metals (Pb) 0.0005%
M.p. range 2.0 Deg. C incl. 133.0 Deg. C
Residue after ignition 0.10%

CAS # 7773-06-0 DOT NR NFPA # 1-0-1

13290	100 G
13291	500 G
13292	2.5 KG

AMMONIUM SULFATE, BIO-REFINED™ ITEM 1906

$(NH_4)_2SO_4$ F.W. 132.14

Assay 99.5% min.
Loss on drying @ 110 C 0.1%
Insoluble matter 0.005%
Nitrate 0.001%
Absorbance (1M in H2O) @ 260 nm <0.039
Residue on ignition 0.01%
pH (1M in water @ 20 C) 5.0-6.0
Chloride 0.0005%
Phosphate 0.0005%
Absorbance (1M in H2O) @ 280 nm <0.030

Al 5 ppm
Bi 5 ppm
Co 5 ppm
Fe 2 ppm
Mg 5 ppm
Na 50 ppm
Sr 5 ppm
As 0.2 ppm
Ca 10 ppm
Cr 5 ppm
K 50 ppm
Mn 5 ppm
Ni 5 ppm
Zn 1 ppm
Ba 5 ppm
Cd 1 ppm
Cu 5 ppm
Li 5 ppm
Mo 5 ppm
Pb 2 ppm

CAS # 7783-20-2 DOT NR

13341	500 G
13342	2.5 KG
13343	10 KG

AMMONIUM SULFATE, REAGENT (ACS) ITEM 647

$(NH_4)_2SO_4$ F.W. 132.14

Assay 99.0% min.
Residue after ignition 0.005%
Chloride 0.0005%
Phosphate 0.0005%
Heavy Metals (as Pb) 0.0005%
pH of 5% solution 5.0-6.0 @25C
Insoluble 0.005%
Nitrate 0.001%
Iron 0.0005%

CAS # 7783-20-2 DOT NR NFPA # 2-0-1

13301	500 G
13302	2.5 KG
13303	10 KG
13304	50 KG

AMMONIUM SULFIDE, 20% AQUEOUS SOLUTION, REAGENT (ACS) ITEM 2449

20 wt % in water

$(NH_4)_2S$ F.W. 68.14

Concentration 20.0-24.0%
Carbonate 0.005%
Residue after ignition 0.04%
Chloride 0.005%

CAS # 12135-76-1 DOT 8/6/3/II

13321 100 ML
13322 500 ML

Specific Gravity 1.100

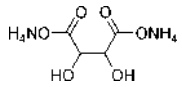
AMMONIUM TARTRATE, REAGENT ITEM 848

$(NH_4)_2C_4H_4O_6$ F.W. 184.15

Assay 98% min.
Insoluble 0.005%
Sulfate 0.005%
Phosphate 0.0005%
Iron 0.0005%
pH of 5% solution 6.0-7.0 @ 25 deg. C
Residue after ignition 0.005%
Chloride 0.0005%
Heavy Metals 0.0005%

CAS # 3164-29-2 DOT NR NFPA # 1-0-0

13350 100 G
13351 500 G
13352 2.5 KG



AMMONIUM TETRABORATE, TETRAHYDRATE, 99.999% ITEM 5109

$(NH_4)_2B_4O_7 \bullet 4H_2O$ F.W. 263.38

Assay (metals basis) 99.999% min.
Assay (as boron) 16.1% min.

CAS # 12228-87-4 DOT NR

88051 10 G
88052 50 G

AMMONIUM TETRACHLOROPALLADATE (II), 99.999% ITEM 5057

$(NH_4)_2PdCl_4$ F.W. 284.29

Assay (metals basis) 99.999% min.

CAS # 13820-40-1 DOT NR

87531 1 G

AMMONIUM TETRACHLOROPLATINATE (II), 99.999% ITEM 5060

$(NH_4)_2PtCl_4$ F.W. 372.98

Assay (metals basis) 99.999%

CAS # 13820-41-2 DOT NR

87561 250 MG
87562 1 G

AMMONIUM TETRAFLUOROBORATE, 99.99+% ITEM 5011

NH_4BF_4 F.W. 104.87

Assay (metals basis) 99.99+%

CAS # 13826-83-0 DOT 8/II

87071 5 G
87072 25 G

AMMONIUM TETRAFLUOROBORATE, 97% ITEM A0477

NH_4BF_4 F.W. 104.87

Assay 97% min.

CAS # 13826-83-0 DOT 8/II

13370 100 G
13371 500 G

Specific Gravity 1.870

AMMONIUM TETRASULFATOCERATE

See Ceric Ammonium Sulfate, Dihydrate

AMMONIUM TETRA(THIOCYANATO)DIAMMINECHROMATE (III), MONOHYDRATE

See Reinecke Salt

AMMONIUM TETRATHIOMOLYBDATE, 99.98% ITEM 5093

$(NH_4)_2MoS_4$ F.W. 260.27

Assay (metals basis) 99.98% min
Molybdenum content 36.0 - 37.6%

CAS # 15060-55-6 DOT NR NFPA # 1-0-1

87891 1 G
87892 5 G
87893 25 G

AMMONIUM TETRATHIOTUNGSTATE, 99.9+% ITEM 3676

$(NH_4)_2WS_4$ F.W. 348.18

Assay (metals basis) 99.9+%

CAS # 13862-78-7 DOT 9/III

13381 1 G
13382 5 G
13383 25 G

AMMONIUM THIOCYANATE, REAGENT (ACS) ITEM 775

NH_4SCN F.W. 76.12

Assay 97.5% min.
Insoluble 0.005%
pH of 5% solution 4.5-6.0 @25C
Sulfate 0.005%
Iron 0.0003%
Appearance - colorless or white crystals
Residue after ignition 0.025%
Chloride 0.005%
Heavy Metals (Pb) 0.0005%
Iodine-consuming substances 0.004 meq/g

CAS # 1762-95-4 DOT NR NFPA # 2-0-0

13400 100 G
13401 500 G
13402 2.5 KG

AMMONIUM THIOCYANATE SOLUTION, 0.1 N ITEM 1138

0.1 mol/L

NH_4SCN F.W. 76.12

Exact Normality 0.1000 ± 0.0005

CAS # 1762-95-4 DOT NR NFPA # 2-0-0

13411 4 L
13412 4 X 4 L
13413 20 L

Specific Gravity 1.002

AMMONIUM THIOCYANATE SOLUTION, 10% W/V ITEM 2031

ASTM Reagent No. 140

NH_4SCN F.W. 76.12

Concentration 10% w/v ± 0.5%

CAS # 1762-95-4 DOT NR

24301 500 ML
24303 4 L

Specific Gravity 1.022

AMMONIUM TRIFLATE

See Ammonium Trifluoromethanesulfonate, 99%

AMMONIUM TRIFLUOROMETHANESULFONATE, 99% ITEM 3520

Not on the TSCA inventory

$CF_3SO_3NH_4$ F.W. 167.11

Assay 99%

CAS # 38542-94-8 DOT NR NFPA # 2-0-0

13421 5 G
13422 25 G

AMMONIUM TUNGSTATE

See Ammonium Paratungstate, 99.9%

AMMONIUM VANADATE

See Ammonium Meta-Vanadate

AMYL ACETATE ITEM 849

Mixture of ester isomers

$C_5H_{11}O_2CCH_3$ F.W. 130.19

Identity Pass test
Color(APHA) 15 max.
Water 0.2%
Nonvolatile matter 0.005%
Appearance Pass test
Odor Pass test
Specific gravity(20C) 0.871-0.879 g/ml
Acidity 0.005 meq/g

CAS # 628-63-7 DOT 3/III NFPA # 2-3-1

13501 500 ML
13502 4 L

Specific Gravity 0.876

n-AMYL ALCOHOL, REAGENT (ACS) ITEM 1140

1-Pentanol

$CH_3(CH_2)_4OH$ F.W. 88.16

Assay 98.0% min.
Residue after evaporation 0.003%
Acids and esters 0.075 meq/g
Color (APHA) 30
Water 0.5%
Carbonyl (as HCHO) 0.1%

CAS # 71-41-0 DOT 3/III NFPA # 2-2-2

13551 500 ML
13552 4 L
13553 4 X 4 L

Specific Gravity 0.820

AMYL BROMIDE

See 1-Bromopentane, 99%

N-AMYLENE

See 1-Pentene, 98%

AMYL IODIDE

See 1-Iodopentane, 98%

A

ANILINE BLUE — ITEM 672

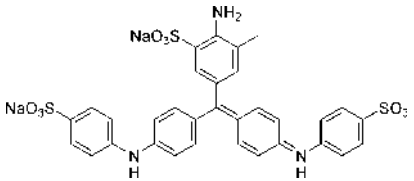
C.I.42755 (Acid Blue 22)

$C_{32}H_{25}N_3S_3O_9Na_2$ F.W. 737.75

Water soluble blue-orange — pH indicator range 10.0-13.0

CAS # 28631-66-5 DOT NR NFPA # 2-1-1

13702 25 G
13701 100 G



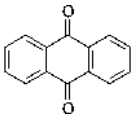
ANTHRAQUINONE, 97% — ITEM 2719

$C_{14}H_8O_2$ F.W. 208.22

Assay (GC-FID), 96.5% min — Identification by GC/MS - Conforms

CAS # 84-65-1 DOT NR

13601 50 G
13602 250 G



ANTIMONY, 99.999%, PIECES — ITEM A0513

Sb F.W. 121.75

CAS # 7440-36-0 DOT 6.1/III NFPA # 3-1-2

13821 25 G
13822 100 G

ANTIMONY, LUMPS/POWDER — ITEM A0519

Sb F.W. 121.75

Assay 99.0% min.

CAS # 7440-36-0 DOT 6.1/III NFPA # 3-1-2

13812 100 G
13811 500 G
13813 2.5 KG

ANTIMONY, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1703

Concentration 10,000 ± 100 ug/ml Matrix: < 30% HCl
NIST Traceable

DOT 8/III NFPA # 3-0-2

22030 100 ML
22032 500 ML

Specific Gravity 1.040

ANTIMONY, 1000 ppm ICP STANDARD SOLUTION — ITEM 1702

Concentration 1,000 ± 10 ug/ml Matrix: <20% HCl
NIST Traceable

DOT 8/III NFPA # 3-0-2

22020 100 ML
22022 500 ML

Specific Gravity 1.040

ANTIMONY, 1000 ppm ICP STANDARD — ITEM 2299

Concentration 1,000 ± 10 ug/ml Matrix: 1% nitric acid w/trace tartaric acid
NIST Traceable

DOT 8/III

13780 100 ML
13782 500 ML

Specific Gravity 1.030

ANTIMONY, 1000 ppm STANDARD SOLUTION — ITEM 1567

AA, colorimetric or volumetric standard

Concentration 1,000 ± 10 ug/ml Matrix: < 30% HCl
NIST Traceable

DOT 8/III NFPA # 3-1-2

70370 100 ML
70372 500 ML

Specific Gravity 1.100

ANTIMONY CHLORIDE

See Antimony Trichloride

ANTIMONY (III) OXIDE, 99.995% — ITEM 5008

Sb_2O_3 F.W. 291.50

Assay (metals basis) 99.995% min.

CAS # 1309-64-4 DOT 6.1/III NFPA # 3-0-0

87041 5 G
87042 25 G

ANTIMONY (III) OXIDE, 99.9% — ITEM 5604

Sb_2O_3 F.W. 291.50

Assay (metals basis) 99.9% min.

CAS # 1309-64-4 DOT 6.1/III

19011	500 G
19012	2.5 KG
19013	10 KG

ANTIMONY (III) OXIDE, REAGENT — ITEM 1225

Sb_2O_3 F.W. 291.50

Assay 99.7% min. Chloride 0.01%
Arsenic 0.2%

CAS # 1309-64-4 DOT 6.1/III NFPA # 3-0-0

13871	500 G
13872	2.5 KG
13873	10 KG
13874	50 KG

ANTIMONY (IV) OXIDE, 99.999% — ITEM 5009

Sb_2O_4 F.W. 307.50

Assay (metals basis) 99.999% min.

CAS # 1332-81-6 DOT 6.1/III

87051	5 G
87052	25 G

ANTIMONY (V) OXIDE, 99.995% — ITEM 5010

Sb_2O_5 F.W. 323.50

Assay (metals basis) 99.999% min

CAS # 1314-60-9 DOT 6.1/III

87061	5 G
87062	25 G

ANTIMONY POTASSIUM TARTRATE, TRIHYDRATE, REAGENT (ACS) — ITEM 852

$C_8H_4O_{12}K_2Sb_2 \bullet 3H_2O$ F.W. 667.87

Assay 99.0-103.0% Arsenic 0.015%
Loss on drying 2.7% Titrable acid or base 0.020 meq/g

CAS # 28300-74-5 DOT 6.1/III NFPA # 3-0-1

13842	100 G
13841	500 G
13843	2.5 KG

ANTIMONY POTASSIUM TARTRATE, SOLUTION — ITEM 2032

APHA for phosphate, about 2.74 g/L

$K_2(C_4H_2O_6Sb)_2 \bullet 3H_2O$ F.W. 667.87

Suitability for phosphate (APHA) Passes Test

CAS # 28300-74-5 DOT NR

24311	500 ML

Specific Gravity 1.000

ANTIMONY (III) SULFIDE, 99.98% — ITEM 5256

Sb_2S_3 F.W. 339.68

Assay (metals basis) 99.98%

CAS # 1345-04-6

13855	5 G
13856	25 G

ANTIMONY TRICHLORIDE, REAGENT (ACS) — ITEM 853

$SbCl_3$ F.W. 228.11

Assay 99.0% min. Insoluble in chloroform 0.05%
Sulfate 0.005% Arsenic 0.02%
Calcium 0.005% Copper 0.001%
Iron 0.002% Lead 0.005%
Potassium 0.01% Sodium 0.02%

CAS # 10025-91-9 DOT 8/II NFPA # 3-0-1

13861	100 G
13862	500 G

APHA 500 COLOR STANDARD

See Color Standard Solution, APHA 500

AQUA AMMONIA

See Ammonium Hydroxide, Reagent (ACS)

AQUA FORTIS

See Nitric Acid

ARSENIC, 99%, GRANULES — ITEM A0606

As F.W. 74.92

CAS # 7440-38-2 DOT 6.1/II NFPA # 3-0-1

13921	25 G
13922	100 G

ARSENIC, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1705

Concentration 10,000 ± 100 ug/ml Matrix: <5% HNO3
NIST Traceable

DOT 8/III NFPA # 3-0-2

22050	100 ML
22052	500 ML

Specific Gravity 1.030

ARSENIC, 1000 ppm ICP STANDARD SOLUTION — ITEM 1704

Concentration 1,000 ± 10 ug/ml Matrix: <5% HNO3
NIST Traceable

DOT 8/III NFPA # 3-0-2

22040	100 ML
22042	500 ML

Specific Gravity 1.030

ARSENIC, 1000 ppm STANDARD SOLUTION — ITEM 739

AA or colorimetric standard

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 3-0-0

70020	100 ML
70022	500 ML

Specific Gravity 1.000

ARSENIC IODIDE, 99.999% — ITEM 1310

AsI_3 F.W. 455.64

CAS # 7784-45-4 DOT 6.1/II NFPA # 3-0-2

13991	10 G

ARSENIC SELENIDE, 99.999% — ITEM A0642

As_2Se_3 F.W. 386.72

CAS # 1303-36-2 DOT 6.1/II NFPA # 3-0-2

13961	10 G

ASCARITE II®, 8-20 MESH, CO2 ABSORBENT — ITEM 2655

Sodium hydroxide coated silica

Alkalinity by titration - report CO2 absorption capacity - report

CAS # 81133-20-2 DOT 8/II

14061	500 G

ASCARITE II®, 20-30 MESH, CO2 ABSORBENT — ITEM 2656

Sodium hydroxide coated silica

CAS # 81133-20-2 DOT 8/II

14071	500 G

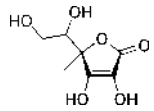
L-ASCORBIC ACID, REAGENT (ACS) — ITEM 854

$C_6H_8O_6$ F.W. 176.13

Assay 99.0% min. Specific Rotation +20.5 to +21.5 deg.
Residue after ignition 0.1% Heavy Metals (Pb) 0.002%
Iron 0.001%

CAS # 50-81-7 DOT NR NFPA # 1-1-0

14031	100 G
14032	500 G
14033	2.5 KG
14034	10 KG
14035	50 KG



AURINTRICARBOXYLIC ACID, AMMONIUM SALT

See Aluminon, Reagent (ACS)

AZOMETHINE H — ITEM 776

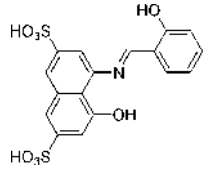
For determination of Boron.

$C_{17}H_{13}NS_2O_8$ F.W. 423.43

Sensitivity to Boron - Pass test Clarity of solution - Pass test

CAS # 32266-60-7 DOT NR

14051	1 G
14052	5 G
14053	25 G
14054	100 G



AZO VIOLET

See 4-(p-Nitrophenylazo)-Resorcinol

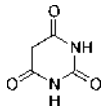
BARBITURIC ACID, 99% ITEM 2988

$C_4H_4N_2O_3$ F.W. 128.09

Assay 99% min.

CAS # 67-52-7 DOT NR

14091	100 G
14092	500 G
14093	2.5 KG
14094	10 KG



BARIUM, 10,000 ppm ICP STANDARD SOLUTION ITEM 1707

Concentration 10,000 ± 100 ug/ml Matrix: <5% HNO3
NIST Traceable

DOT 8/III NFPA # 1-0-1

22070	100 ML
22072	500 ML

Specific Gravity 1.030

BARIUM, 1000 ppm ICP STANDARD SOLUTION ITEM 1706

Concentration 1,000 ± 10 ug/ml Matrix: <5% HNO3
NIST Traceable

DOT 8/III NFPA # 1-0-1

22060	100 ML
22062	500 ML

Specific Gravity 1.030

BARIUM, 1000 ppm STANDARD SOLUTION ITEM 740

AA or colorimetric standard

Concentration 1,000 ± 10 ug/ml Matrix: 1% HCl
NIST Traceable

DOT NR NFPA # 1-0-1

70030	100 ML
70032	500 ML

Specific Gravity 1.020

BARIUM ACETATE, 99.999% ITEM 5012

$Ba(C_2H_3O_2)_2$ F.W. 255.43

Assay (metals basis) 99.999% min

CAS # 543-80-6 DOT 6.1/III NFPA # 3-0-0

87081	5 G
87082	25 G

BARIUM ACETATE, REAGENT (ACS) ITEM 777

$Ba(C_2H_3O_2)_2$ F.W. 255.43

Assay 99.0-102.0%
Chloride 0.001%
Potassium 0.003%
Heavy Metals 0.0005%
Strontium 0.2%
Insoluble 0.01%
Oxidizing substances 0.005%
Calcium 0.05%
Iron 0.001%
Sodium 0.005%

CAS # 543-80-6 DOT 6.1/III NFPA # 3-0-0

14100	100 G
14101	500 G
14102	2.5 KG

BARIUM BORATE, REAGENT ITEM A0699

$Ba(BO_2)_2 \bullet 2H_2O$ F.W. 258.98

Assay 97% min.
Chloride 0.005%
Heavy Metals (Pb) 0.0005%
Insoluble 0.01%
Calcium 0.05%
Iron 0.0005%

CAS # 13701-59-2 DOT NR

14121	100 G

BARIUM BROMIDE, REAGENT ITEM A0705

$BaBr_2 \bullet 2H_2O$ F.W. 333.17

Assay 99.0% min
Chloride 0.2%
Calcium 0.05%
Iron 0.0005%
Insoluble 0.01%
Nitrogen Compounds (as N) 0.001%
Heavy Metals (as Pb) 0.0005%

CAS # 7791-28-8 DOT 6.1/III NFPA # 3-0-0

14142	100 G
14141	500 G

BARIUM CARBONATE, 99.999% ITEM 5013

$BaCO_3$ F.W. 197.34

Assay (metals basis) 99.999% min.

CAS # 513-77-9 DOT NR NFPA # 2-0-0

87091	5 G
87092	25 G
87093	100 G

BARIUM CARBONATE, REAGENT (ACS) ITEM 855

$BaCO_3$ F.W. 197.34

Assay 99.0-101.0%
Chloride 0.002%
Oxidizing substances (as NO_3) 0.005%
Potassium 0.005%
Heavy metals (as Pb) 0.001%
Strontium 0.7%
Insoluble in dil. HCl 0.015%
Water soluble titrable base 0.002 meq/g
Sulfide 0.001%
Calcium 0.05%
Iron 0.002%
Sodium 0.02%

CAS # 513-77-9 DOT NR NFPA # 2-0-0

14150	100 G
14151	500 G
14152	2.5 KG
14153	10 KG

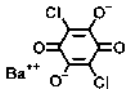
BARIUM CHLORANILATE, REAGENT — ITEM 856

$BaC_6O_4Cl_2 \bullet 3H_2O$ F.W. 398.37

Suitability for sulfate determination - Pass Test Color - Deep purple
Form - Crystal

CAS # 32458-20-1 DOT 6.1/III

14181	25 G
14182	100 G
14183	500 G



BARIUM CHLORIDE, 99.998% — ITEM 5014

$BaCl_2$ F.W. 208.25

Assay (metals basis) 99.998% min Barium content 64.0-66.0%

CAS # 10361-37-2 DOT 6.1/III NFPA # 3-0-0

87101	5 G
87102	25 G
87103	100 G

BARIUM CHLORIDE, DIHYDRATE, REAGENT (ACS) — ITEM 602

$BaCl_2 \bullet 2H_2O$ F.W. 244.28

Assay 99.0% min.
Loss on drying @ 150 C 14.0-16.0%
Insoluble 0.005%
Calcium 0.05%
Iron 0.0002%
Sodium 0.005%
pH of 5% solution @ 25 C 5.2-8.2
Oxidizing substances (as NO3) 0.005%
Potassium 0.0025%
Heavy Metals (by ICP-OES) 0.0005%
Strontium 0.1%

CAS # 10326-27-9 DOT 6.1/III NFPA # 3-0-0

14200	100 G
14201	500 G
14202	2.5 KG
14203	10 KG
14204	50 KG
14205	182 KG

BARIUM CHLORIDE SOLUTION, 1.0 N — ITEM 1860

0.5 mol/L

$BaCl_2 \bullet 2H_2O$ F.W. 244.28

Concentration 1.0000 ± 0.0005 N

CAS # 10326-27-9 DOT NR

14222	500 ML
14221	4 L

Specific Gravity 1.070

BARIUM CHLORIDE SOLUTION, 0.5 M (12%) — ITEM 1143

$BaCl_2 \bullet 2H_2O$ F.W. 244.28

Exact Molarity 0.5 ± 0.02

CAS # 10326-27-9 DOT NR NFPA # 3-0-0

14211	500 ML
14212	4 L

Specific Gravity 1.110

BARIUM CHLORIDE SOLUTION, 0.1 M — ITEM 2034

$BaCl_2 \bullet 2H_2O$ F.W. 244.28

Concentration 0.1000 M ± 0.0005 M

CAS # 10326-27-9 DOT NR

24331	4 L
24332	4 X 4 L
24333	20 L

Specific Gravity 1.020

BARIUM CHLORIDE SOLUTION, 10% W/V — ITEM 2033

Reagent Grade/Meets APHA Specifications for Sulfates

$BaCl_2 \bullet 2H_2O$ F.W. 244.28

Concentration 10.0 ± 0.5%

CAS # 10326-27-9 DOT NR

24321	500 ML
24322	4 L

Specific Gravity 1.090

BARIUM CHROMATE, REAGENT — ITEM A0735

$BaCrO_4$ F.W. 253.33

Assay 99% min. Insoluble in HCl 0.05%

CAS # 10294-40-3 DOT 6.1/III

14250	100 G
14251	500 G

BARIUM, COPPER, YTTRIUM SUPERCONDUCTOR

See Super Tc-123

BARIUM DIPHENYLAMINE SULFONATE, 0.005 M SOLUTION — ITEM 107

0.005 Molar Solution in Water, Oxidation-reduction indicator.

$Ba(SO_3C_6H_4NHC_6H_5)_2$

Suitability as indicator pass test

CAS # 1300-92-1 DOT NR

14321	500 ML

Specific Gravity 1.000

BARIUM FLUORIDE, 99.99% — ITEM A0750

BaF_2 F.W. 175.33

CAS # 7787-32-8 DOT 6.1/III

14351	25 G

BARIUM FLUORIDE — ITEM A0747

BaF_2 F.W. 175.33

Assay 99%

CAS # 7787-32-8 DOT 6.1/III

14342	100 G
14341	500 G

BARIUM HYDROXIDE, OCTAHYDRATE, REAGENT (ACS) — ITEM 857

$Ba(OH)_2 \bullet 8H_2O$ F.W. 315.47

Assay 98.0% min.
Insoluble in dil. HCl 0.01%
Sulfide - pass test
Calcium 0.05%
Iron 0.001%
Sodium 0.01%
Carbonate(as BaCO3) 2.0%
Chloride 0.001%
Potassium 0.01%
Heavy Metals (Pb) 0.0005%
Strontium 0.8%

CAS # 12230-71-6 DOT 6.1/III NFPA # 3-0-1

14370	100 G
14371	500 G
14372	2.5 KG
14373	10 KG
14374	50 KG

BARIUM IODATE, REAGENT — ITEM 5

$Ba(IO_3)_2 \bullet H_2O$ F.W. 505.15

Sulfate 0.01%
Iron 0.001%
Other halogens (as Cl) 0.01%
Heavy metals (as Pb) 0.0005%
Insoluble in HCl 0.005%

CAS # 7787-34-0 DOT 5.1/II NFPA # 2-0-1

14401	100 G
14402	500 G

BARIUM METAPHOSPHATE — ITEM A0780

Lumps

$Ba(PO_3)_2$ F.W. 295.28

Assay 90% min.
Sodium 0.5%
pH of 5% solution 6.5 max.
Chloride 0.1%

CAS # 13762-83-9 DOT NR

14441	100 G

BARIUM MOLYBDATE, REAGENT — ITEM A0783

$BaMoO_4$ F.W. 297.27

Assay 98% min.

CAS # 7787-37-3 DOT NR

14421	50 G

BARIUM NITRATE, 99.9999% — ITEM 5015

$Ba(NO_3)_2$ F.W. 261.34

Assay (metals basis) 99.9999%

CAS # 10022-31-8 DOT 5.1/6.1/II NFPA # 3-0-1

87111	10 G
87112	50 G

BARIUM NITRATE, REAGENT (ACS) — ITEM 858

$Ba(NO_3)_2$ F.W. 261.34

Assay 99.0%
Insoluble 0.01%
Potassium 0.005%
Heavy Metals (by ICP-OES) 0.0005%
Strontium 0.1%
pH of 5% solution 5.0-8.0
Chloride 0.0005%
Calcium 0.05%
Iron 0.0002%
Sodium 0.005%

CAS # 10022-31-8 DOT 5.1/6.1/II NFPA # 3-0-1

14450	100 G
14451	500 G
14452	2.5 KG
14453	10 KG
14454	50 KG
14455	500 KG
14456	1000 KG

BARIUM OXIDE, TECHNICAL GRADE, POWDER — ITEM 5255

BaO F.W. 153.33

Assay 90%

CAS # 1304-28-5 DOT 6.1/III NFPA # 3-0-1

14505	500 G	**$59.60**

BARIUM PERCHLORATE, ANHYDROUS — ITEM 7

Dehydrating agent

$Ba(ClO_4)_2$ F.W. 336.23

Loss on drying @ 150 C 1.0% max Appearance - Pass Test

CAS # 13465-95-7 DOT 5.1/6.1/II NFPA # 2-1-1

14600	100 G
14601	500 G
14602	2.5 KG
14603	22 KG
14606	100 KG
14607	500 KG

BARIUM PERCHLORATE, TRIHYDRATE, REAGENT — ITEM 8

$Ba(ClO_4)_2 \bullet 3H_2O$ F.W. 390.28

Barium content 33.8-36.5%
Heavy metals (as Pb) 0.0005%
pH of 5% solution 5.0-8.0 @ 25 C
Chloride and chlorate 0.003%
Sulfate 0.001%
Iron 0.0005%
Insoluble 0.005%

CAS # 10294-39-0 DOT 5.1/6.1/II NFPA # 2-1-1

14620	100 G
14621	500 G
14622	2.5 KG
14623	10 KG
14624	50 KG
14625	100 KG
14626	500 KG

BARIUM PERCHLORATE, 0.01 N, AQUEOUS SOLUTION — ITEM 5000

0.005 mol/L

$Ba(ClO_4)_2 \bullet 3H_2O$ F.W. 390.28

Concentration 0.0100 ± 0.0010 N

CAS # 10294-39-0 DOT NR

10281	1 L
10282	4 L

BARIUM PEROXIDE, 90+% — ITEM 2965

BaO_2 F.W. 169.33

Assay - greater than 90%

CAS # 1304-29-6 DOT 5.1/6.1/II

14631	100 G
14632	500 G

BARIUM STANNATE, 99% — ITEM A0849

$BaSnO_3$ F.W. 304.04

Assay (metals basis) 99%

CAS # 12009-18-6 DOT NR

14681	100 G

BARIUM SULFATE, REAGENT — ITEM 859

$BaSO_4$ F.W. 233.40

Water soluble salts 0.02%
Heavy metals (Pb) 0.001%
Chloride 0.001%
Iron 0.001%

CAS # 7727-43-7 DOT NR NFPA # 3-0-0

14710	100 G
14711	500 G
14712	2.5 KG

BARIUM SULFATE, PURIFIED — ITEM 8591

$BaSO_4$ F.W. 233.40

Water soluble salts 0.5%
Heavy Metals 0.001%
Chloride 0.01%
Iron 0.001%

CAS # 7727-43-7 DOT NR NFPA # 3-0-0

14661	500 G
14662	2.5 KG
14663	10 KG
14664	50 KG

BARIUM TITANATE, 99.9% — ITEM A0885

$BaTiO_3$ F.W. 233.21

CAS # 12047-27-7 DOT NR NFPA # 2-0-0

14761	25 G
14762	100 G

BARIUM TITANATE, 99% — ITEM A0882

$BaTiO_3$ F.W. 233.21

Assay 99%
Loss on Ignition 0.5%

CAS # 12047-27-7 DOT NR NFPA # 2-0-0

14750	100 G
14751	500 G
14752	2.5 KG

BARIUM TRIFLATE

See Barium Trifluoromethanesulfonate, 98%

BARIUM TRIFLUOROACETATE, 99% — ITEM 3484

Not on the TSCA inventory

$Ba(OOCCF_3)_2$ F.W. 363.58

Assay 99%

CAS # 2992-78-1 DOT NR

10291	5 G
10292	25 G

BARIUM TRIFLUOROMETHANESULFONATE, 98% — ITEM 3521

$Ba(CF_3SO_3)_2$ F.W. 435.48

Assay 98%

CAS # 2794-60-7 DOT 6.1/III NFPA # 2-0-0

14861	5 G
14862	25 G

BARIUM TUNGSTATE, 99.9% — ITEM A0891

$BaWO_4$ F.W. 385.18

Assay (metals basis) 99.9% min. Loss on ignition @ 600 C 2% max.

CAS # 7787-42-0 DOT NR

14781 25 G

BATHOCUPROINE, LABORATORY REAGENT — ITEM 240

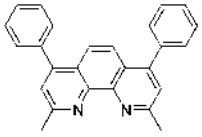
2,9-Dimethyl-4,7-diphenyl-1,10-phenanthroline. Reagent for the colorimetric determination of copper. For uses of this reagent see booklet No. 217.

$(CH_3)_2(C_6H_5)_2C_{12}H_4N_2$ F.W. 360.44

Sensitivity to copper (I) Pass test Clarity of solution - Pass test

CAS # 4733-39-5 DOT NR

14801 1 G
14802 5 G
14803 25 G



BATHOCUPROINE, SULFONATED, SODIUM SALT — ITEM 294

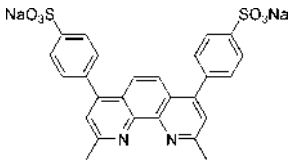
2,9 Dimethyl-4,7-diphenyl-1,10-phenanthroline-disulfonic Acid Disodium Salt. Reagent for the colorimetric determination of copper. For uses of this reagent see booklet No. 217.

$C_{12}H_4N_2(CH_3)_2(C_6H_4SO_3Na)_2$ F.W. 564.55

Sensitivity to copper - Pass Test Color of solution - Pass Test
H2O (KF), 12.5% max Appearance - White to light tan powder/solid

CAS # 52698-84-7 DOT NR

14851 1 G
14852 5 G
14853 25 G



BATHOPHENANTHROLINE, 99% — ITEM 108

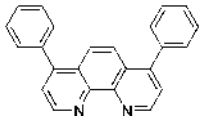
4,7-Diphenyl-1,10-phenanthroline. Reagent for colorimetric determination of iron. For uses of this reagent see booklet No. 218.

$(C_6H_5)_2C_{12}H_6N_2$ F.W. 332.41

Assay (Non-aqueous titration), 98.5% to 101.5% Assay (GC-FID), 98.5% min
Identification by GC/MS - Conforms Sensitivity to Iron - Pass test
Appearance - White to tan crystal/powder

CAS # 1662-01-7 DOT NR NFPA # 2-1-1

15001 1 G
15002 5 G
15003 25 G



BATHOPHENANTHROLINE, SULFONATED, SODIUM SALT, REAGENT — ITEM 286

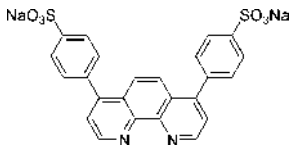
4,7-Diphenyl-1,10-phenanthrolinedisulfonic Acid Disodium Salt. Reagent for the colorimetric determination of iron. For uses of this reagent, see booklet No. 218.

$C_{12}H_6N_2(C_6H_4SO_3Na)_2$ F.W. 536.50

Suitability as indicator Pass Test Sensitivity to iron Pass Test

CAS # 53744-42-6 DOT NR

15101 1 G
15102 5 G
15103 25 G



B

tris-(BATHOPHENANTHROLINE) RUTHENIUM (II) CHLORIDE ITEM 1597

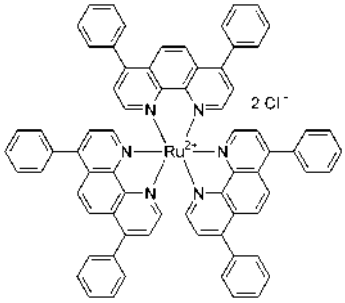
Oxidation-reduction indicator

$(C_{24}H_{16}N_2)_3RuCl_2$ F.W. 1169.20

UV/Vis scan (350-600 nm), Conforms to standard
Local absorbance maximum, 460-470 nm
Form - Powder / crystal
Local absorbance maximum, 434-444 nm
Color - Orange to orange-red

CAS # 36309-88-3 DOT NR

15083	250 MG
15081	1 G
15082	5 G
15084	25 G
15085	100 G
15086	500 G



tris-(BATHOPHENANTHROLINE) RUTHENIUM (II) PERCHLORATE ITEM 2512

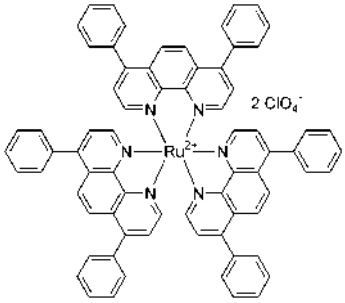
Oxidation-reduction indicator

$(C_{24}H_{16}N_2)_3Ru(ClO_4)_2$ F.W. 1297.20

uv-vis Spectrophotometry - pass test

CAS # 75213-31-9 DOT NR

15072	1 G
15073	5 G
15074	25 G



tris-(BATHOPHENANTHROLINE) RUTHENIUM (II) TETRAPHENYLBORON ITEM 2355

$(C_{24}H_{16}N_2)_3Ru[B(C_6H_5)_4]_2$ F.W. 1736.78

CAS # 188187-34-0 DOT NR

15093	250 MG
15091	1 G
15092	5 G

BENEDICT'S SOLUTION, QUANTITATIVE ITEM 2035

Assay - 2.00 ± 0.01 mg Glucose/mL

DOT NR

24341	500 ML

BENZALDEHYDE, 99% ITEM 1070

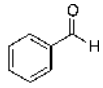
C_6H_5CHO F.W. 106.12

Assay (GC-FID), 98.5% min
Identification by GC/MS - Conforms

CAS # 100-52-7 DOT 9/III NFPA # 1-2-1

15201	500 ML
15202	4 L

Specific Gravity 1.044



BENZENE, REAGENT (ACS) ITEM 860

C_6H_6 F.W. 78.11

Assay 99.0% min.
Water 0.05%
Substances darkened by sulfuric acid - Pass test
Sulfur compounds (S) 0.005%
Color (APHA) 10
Residue after evaporation 0.001%
Thiophene - pass test

CAS # 71-43-2 DOT 3/II NFPA # 4-3-2

15251	1 L
15252	4 L

Specific Gravity 0.879

BENZENE, REAGENT ITEM 5518

C_6H_6 F.W. 78.11

Assay 99.0% min.
Water 0.05%
Thiophene - pass test
Color (APHA) 10
Residue after evaporation 0.001%
Sulfur compounds (S) 0.005%

CAS # 71-43-2 DOT 3/II NFPA # 4-3-2

15255	1 L
15256	4 L

1,2-BENZENEDICARBOXALDEHYDE

See o-Phthaldialdehyde

1,2-BENZENEDICARBOXYLIC ACID

See Phthalic Acid

1,3-BENZENEDIOL

See Resorcinol

1,4-BENZENEDIOL

See Hydroquinone, 99%

BENZENEMETHANOL

See Benzyl Alcohol

BENZOFURAZAN 1-OXIDE

See Benzofuroxan

BENZOFUROXAN, 98% ITEM 1114

Benzofurazan 1-oxide

$C_6H_4N_2O_2$ F.W. 136.11

Assay (GC-FID), 97.5% min
Appearance - Yellow powder/solid
Identification by GC/MS - Conforms

CAS # 480-96-6 DOT NR NFPA # 2-1-0

15281	25 G
15282	100 G

BENZOIC ACID, PRIMARY STANDARD ITEM 1681

Meets all ACS Specifications

C_6H_5COOH F.W. 122.12

Assay 99.95-100.05%
Residue after ignition 0.005%
Chlorine compounds 0.005%
Heavy metals (Pb) 0.0005%
Freezing point 122-123 C
Insoluble in methanol 0.005%
Sulfur compounds 0.002%
Substances reducing permanganate- pass test

CAS # 65-85-0 DOT NR NFPA # 1-1-1

15312	25 G
15311	100 G

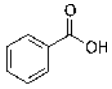
BENZOIC ACID, REAGENT (ACS) ITEM 673

C_6H_5COOH F.W. 122.12

Assay 99.5% min
Residue after ignition 0.005%
Chlorine compounds 0.005%
Heavy metals (Pb) 0.0005%
Freezing point 122-123 C
Insoluble in methanol 0.005%
Sulfur compounds 0.002%
Substances reducing permanganate - Pass Test

CAS # 65-85-0 DOT NR NFPA # 1-1-1

15300	100 G
15301	500 G
15302	2.5 KG
15303	10 KG
15304	50 KG



BENZOIC ACID, AMMONIUM SALT

See Ammonium Benzoate

BENZOL

See Benzene

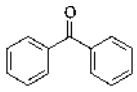
BENZOPHENONE, 99% ITEM 2567

$(C_6H_5)_2CO$ F.W. 182.22

Assay (GC-FID), 98.5% min
Color - White to off-white
Identification by GC/MS - Conforms
Form - Powder, flake, or crystal

CAS # 119-61-9 DOT NR NFPA # 2-0-0

15291	250 G
15292	1 KG



BENZOTRIAZOLE, 99% ITEM 3465

1H-Benzotriazole, 1,2,3-Benzotriazole

$C_6H_4N_3H$ F.W. 119.13

Assay (GC-FID), 98.5% min

CAS # 95-14-7 DOT 6.1/III NFPA # 2-0-1

15392	250 G
15393	1 KG

B

BENZOYL CHLORIDE, REAGENT (ACS) ITEM 2390

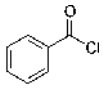
C_6H_5COCl F.W. 140.57

Assay 98.0-100.5%
Residue after ignition 0.005%
Heavy Metals (as Pb) 0.001%
Freezing point -2.0 to 0.0 C
Phosphorus compounds (as P) 0.002%
Iron (Fe) 0.001%

CAS # 98-88-4 DOT 8/II NFPA # 3-2-2

88111	100 ML
88112	500 ML
88113	4 L

Specific Gravity 1.210



BENZYL ALCOHOL, REAGENT (ACS) ITEM 2391

Benzenemethanol

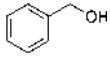
$C_6H_5CH_2OH$ F.W. 108.14

Assay 99.0% min
Residue after ignition 0.005%
Benzaldehyde (C6H5CHO) 0.01%
Color (APHA) 20
Acetophenone (C6H5COCH3) 0.02%

CAS # 100-51-6 DOT NR NFPA # 2-1-0

88121	100 ML
88122	500 ML
88123	4 L

Specific Gravity 1.045



BENZYLAMINE, 98% ITEM 5388

$C_6H_5CH_2NH_3$ F.W. 107.15

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless to yellow liquid
Identification by GC/MS - Conforms

CAS # 100-46-9 DOT 8/II

15661	100 G
15662	500 G

BENZYL CHLORIDE, 99% ITEM 5389

Stabilized with propylene oxide

$C_6H_5CH_2Cl$ F.W. 126.58

Assay (GC-FID), 98.5% min
Stabilizer (Propylene oxide) - Confirm presence
Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 100-44-7 DOT 6.1/8/II

15672	500 ML
15673	2 L

Specific Gravity 1.100

4-BENZYLOXYBROMOBENZENE, 98% ITEM 5203

Not on the TSCA inventory.

$C_6H_5CH_2OC_6H_4Br$ F.W. 263.14

Assay 97%

CAS # 6793-92-6 DOT NR

14931	25 G
14932	100 G

4-BENZYLOXYPHENYL MAGNESIUM BROMIDE, 0.8 M, in TETRAHYDROFURAN ITEM 5204

Not on the TSCA inventory

$C_6H_5CH_2OC_6H_4MgBr$ F.W. 287.45

Active concentration, 0.80 M ± 0.10 M
Density (g/ml), Report

CAS # 120186-59-6 DOT 4.3/3/III NFPA # 3-3-3

Please Inquire For Sizes

BENZYLTRIMETHYLAMMONIUM CHLORIDE, 60%, AQUEOUS SOLUTION ITEM 5478

$C_{10}H_{16}NCl$ F.W. 185.69

Concentration 56-62%
Specific gravity 1.065-1.079

CAS # 56-93-9 DOT NR

15611	500 G
15612	2.5 KG

Specific Gravity 1.072

BERYLLIUM, 10,000 ppm ICP STANDARD SOLUTION ITEM 1709

Concentration 10,000 ± 100 ug/ml
NIST Traceable
Matrix: <5% HNO3

DOT 8/III NFPA # 3-0-2

22090	100 ML
22092	500 ML

Specific Gravity 1.030

BERYLLIUM, 1000 ppm ICP STANDARD SOLUTION ITEM 1708

Concentration 1,000 ± 10 ug/ml
NIST Traceable
Matrix: <5% HNO3

DOT 8/III NFPA # 3-0-2

22080	100 ML
22082	500 ML

Specific Gravity 1.030

BERYLLIUM OXIDE, 99% — ITEM A0958

BeO F.W. 25.01

Assay (Metals Basis) 99% min.

CAS # 1304-56-9 DOT 6.1/II

15491 25 G

BERYLLIUM SULFATE, REAGENT — ITEM 861

$BeSO_4 \bullet 4H_2O$ F.W. 177.14

Assay 98.0% Insoluble 0.01%
Chloride 0.01%

CAS # 7787-56-6 DOT 6.1/II NFPA # 3-0-1

15502 100 G
15503 500 G

BETHGE APPARATUS — ITEM 370

Apparatus for carrying out wet oxidation of organic matter with perchloric acid and perchloric acid mixtures permitting total reflux or withdrawal of condensate. Three pcs., thermometer not included.

DOT NR

78001 EACH

BHT PRESERVATIVE

See 2,6-Di-tert-Butyl-4-Methylphenol

BICINCHONINIC ACID

See 4,4'-Dicarboxy-2,2'-Biquinoline

BICINCHONINIC ACID, POTASSIUM SALT

See 4,4'-Dicarboxy-2,2'-Biquinoline, Potassium Salt

BICINCHONINIC ACID, SODIUM SALT

See 4,4'-Dicarboxy-2,2'-Biquinoline, Sodium Salt

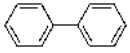
BIPHENYL, 99% — ITEM 2721

$C_6H_5C_6H_5$ F.W. 154.21

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms

CAS # 92-52-4 DOT 9/III

15701 100 G
15702 1 KG
15703 2.5 KG
15704 20 KG



BIPHENYL SODIUM

See Organic Halogen Reagent

BIPYRIDINE INDICATOR PAPER — ITEM 2661

Impregnated with 2,2'-bipyridine, the paper reacts with ferrous iron [Fe(II)] ions giving a deep red very stable complex cation. Sensitivity - 2 mg/l Fe(II). 20 x 70 mm strips, 200 per box.

DOT NR

88961 BOX OF 200

2,2'-BIPYRIDINE, 99%, REAGENT (ACS) — ITEM 109

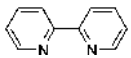
2,2'-Bipyridyl. Reagent for the colorimetric determination of iron. Base for oxidation-reduction indicator.

$(C_5H_4N)_2$ F.W. 156.18

Assay (GC-FID), 98.5% min Clarity and absorbance of solution - Pass test
Sensitivity of ferrous iron - Pass test Melting point 70 C min

CAS # 366-18-7 DOT 6.1/III NFPA # 2-1-1

15803 25 G
15804 100 G
15805 1 KG
15806 5 KG
15807 20 KG



tris-(2,2'-BIPYRIDINE) RUTHENIUM (II) CHLORIDE, HYDRATE — ITEM 114

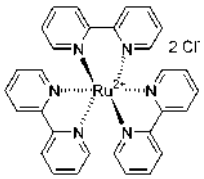
Oxidation-reduction indicator.

$(C_{10}H_8N_2)_3RuCl_2 \bullet 6H_2O$ F.W. 748.62

UV/Vis absorbance -
Absorbance max at 454 nm Suitability as redox indicator - Pass test

CAS # 50525-27-4 DOT NR

15881 1 G
15882 5 G
15884 25 G



cis-bis-(2,2'-BIPYRIDINE) RUTHENIUM (II) CHLORIDE, HYDRATE — ITEM 2791

Not on the TSCA inventory.

$(C_{10}H_8N_2)_2RuCl_2 \bullet xH_2O$ F.W. 484.36

Appearance - Dark green to black solid H2O (KF), 15.0% max

CAS # 98014-14-3 DOT NR

15891	500 MG
15892	2 G
15893	5 G
15894	25 G

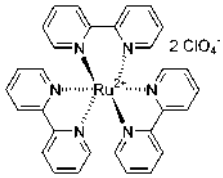
tris-(2,2'-BIPYRIDINE) RUTHENIUM (II) PERCHLORATE — ITEM 2989

$(C_{10}H_8N_2)_3Ru(ClO_4)_2$ F.W. 768.53

uv-vis Spectrophotometry - pass test

CAS # 15635-95-7 DOT NR

15912	1 G
15913	5 G
15914	25 G



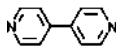
4,4'-BIPYRIDINE — ITEM 2990

$(C_5H_4N)_2$ F.W. 156.18

Assay 98% min.

CAS # 553-26-4 DOT 6.1/III

Please Inquire For Sizes



2,2'-BIPYRIDYL

See 2,2'-Bipyridine, 99%

BIS-(2,2'-BIPYRIDINE) RUTHENIUM CHLORIDE

See cis-bis-(2,2'-Bipyridine) Ruthenium(II) Chloride, Hydrate

BIS(4-CHLOROPHENYL)ACETYLENE

See 4,4'-Dichlorodiphenylacetylene

BIS-CYCLOHEXANONE OXALDIHYDRAZONE

See bis-Cyclohexanone Oxaldihydrazone

1,4-BIS(2,3-EPOXYPROPOXY)BUTANE

See 1,4-Butanediol Diglycidyl Ether

BIS(4-FLUOROPHENYL)ACETYLENE

See 4,4'-Difluorodiphenylacetylene

BIS(2-HYDROXYETHYL) ETHER

See Diethylene Glycol, 99%

BIS-2-METHOXYETHYL ETHER

See Diethylene Glycol Dimethyl Ether, 99%

BISMUTH, 99.999%, PIECES — ITEM A0996

Bi F.W. 208.98

Assay (metals basis) 99.999%

CAS # 7440-69-9 DOT NR NFPA # 0-0-1

16491	100 G
16492	500 G

BISMUTH, 99.99%, NEEDLES — ITEM 4580

Bi F.W. 208.98

Assay (metals basis) 99.99% min.

CAS # 7440-69-9 DOT NR

20901	500 G
20902	2.5 KG

BISMUTH, REAGENT, SHOT — ITEM 862

Bi F.W. 208.98

Assay 99.9% min.
Arsenic 0.0001%
Iron 0.002%
Silver 0.005%
Antimony 0.01%
Copper 0.001%
Lead 0.005%
Zinc 0.005%

CAS # 7440-69-9 DOT NR NFPA # 0-0-1

16501	100 G
16502	500 G

BISMUTH, 99.9%, -100 mesh POWDER — ITEM 3742

Bi F.W. 208.98

Assay (metals basis) 99.9%

CAS # 7440-69-9 DOT NR

16471	100 G
16472	500 G

BISMUTH, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1711

Concentration 10,000 ± 100 ug/ml Matrix: <5% HNO3
NIST Traceable

DOT 8/III NFPA # 2-0-1

22110	100 ML
22112	500 ML

Specific Gravity 1.030

BISMUTH, 1000 ppm ICP STANDARD SOLUTION — ITEM 1710

Concentration 1,000 ± 10 ug/ml Matrix: <5% HNO3
NIST Traceable

DOT 8/III NFPA # 3-0-2

22100	100 ML
22102	500 ML

Specific Gravity 1.030

BISMUTH CHLORIDE, REAGENT (ACS) — ITEM 863

$BiCl_3$ F.W. 315.34

Assay 98.0-102.0%
Arsenic 0.001%
Iron 0.005%
Nitrate 0.01%
Calcium 0.005%
Sodium 0.02%
Insoluble in HCl 0.01%
Copper 0.001%
Lead 0.01%
Sulfate 0.01%
Potassium 0.01%
Silver 0.002%

CAS # 7787-60-2 DOT NR

16533	25 G
16531	100 G
16532	500 G

BISMUTH MOLYBDATE, 99.5% — ITEM 1328

-200 mesh

$Bi_2(MoO_4)_3$ F.W. 897.77

Assay (metals basis) 99.5% min.

CAS # 51898-99-8 DOT NR

Please Inquire For Sizes

BISMUTH NITRATE, PENTAHYDRATE, REAGENT (ACS) — ITEM 864

$Bi(NO_3)_3 \bullet 5H_2O$ F.W. 485.07

Assay 98.0% min.
Arsenic 0.001%
Iron 0.001%
Silver 0.001%
Sulfate 0.005%
Calcium 0.005%
Insoluble in HNO3 0.005%
Copper 0.002%
Lead 0.002%
Chloride 0.001%
Sodium 0.02%
Potassium 0.01%

CAS # 10035-06-0 DOT 5.1/III NFPA # 1-0-1

16571	100 G
16572	500 G
16573	2.5 KG
16574	10 KG
16575	50 KG
16576	500 KG
16577	1000 KG

BISMUTH OXIDE, REAGENT — ITEM 2259

Bi_2O_3 F.W. 465.96

Assay 88.8% (as Bi) min.
Sulfate 0.002%
Iron 0.005%
Chloride 0.001%
Nitrate 0.05%
Lead 0.003%

CAS # 1304-76-3 DOT NR NFPA # 1-0-0

16543	100 G
16542	500 G

BISMUTH OXIDE, 99.998% — ITEM 1223

Yellow powder

Bi_2O_3 F.W. 465.96

Assay (metals basis) 99.998% min

CAS # 1304-76-3 DOT NR NFPA # 1-0-0

16581	25 G
16582	100 G

BISMUTH OXYPERCHLORATE

See Bismuthyl Perchlorate Monohydrate

BISMUTH PHOSPHATE — ITEM A1032

Not on the TSCA Inventory, for R&D use only.

$BiPO_4$ F.W. 303.95

Identity Pass Test

CAS # 10049-01-1 DOT NR

16621	25 G

BISMUTH TRIOXIDE

See Bismuth Oxide, Reagent

B

BISMUTHYL CHLORIDE, 99.99% **ITEM A1020**

BiOCl F.W. 260.43

CAS # 7787-59-9 DOT NR

16591 25 G

BISMUTHYL PERCHLORATE MONOHYDRATE, REAGENT **ITEM 357**

$BiOClO_4 \bullet H_2O$ F.W. 342.47

Insoluble 0.01% Chloride 0.01%
Sulfate 0.005% Iron 0.01%
pH of 5% solution 0-3

CAS # 54509-78-3 DOT 5.1/II

16603 25 G
16601 100 G
16602 500 G

1,4-BIS-(PHENYLETHYNYL)BENZENE

See 1,4-bis-(Phenylethynyl)benzene

3,3 BIS(P-HYDROXYPHENYL)PHTHALIDE

See Phenolphthalein

BIS-(SALICYLIDENE)-ETHYLENEDIAMINE

See bis-(Salicylidene)-Ethylenediamine

BIS-(2,2',2"-TERPYRIDINE) RUTHENIUM CHLORIDE

See bis-(2,2',2"-Terpyridine) Ruthenium (II) Chloride

BIS-(TRIMETHYLSILYL)ACETYLENE

See bis-(Trimethylsilyl)acetylene, 98%

1,4-BIS-(TRIMETHYLSILYL)-1,3-BUTADIYNE

See 1,4-bis-(Trimethylsilyl)-1,3-Butadiyne

BIS-(TRIMETHYLSILYLETHYNYL)BENZENE

See 1,3-bis-(Trimethylsilylethynyl)benzene, 96%
1,4-bis-(Trimethylsilylethynyl)benzene, 98%

BIS-(TRIMETHYLSILYLOXY)ETHANE

See 1,2-bis-(Trimethylsilyloxy)ethane, 98%

BIS(TRIPHENYLPHOSPHINE)PALLADIUM CHLORIDE

See Triphenylphosphine Palladium Chloride

BLUE VITRIOL

See Cupric Sulfate, Pentahydrate

B-NAPHTHOL **ITEM 4083**

2-Naphthol, 2-hydroxynaphthalene

$C_{10}H_7OH$ F.W. 144.17

Melting point (target) 121-123 C

CAS # 135-19-3 DOT 9/III

21241 500 G
21242 2.5 KG

BOC PROPARGYLAMINE

See N-(tert-Butoxycarbonyl)propargylamine

N-BOC PROPARGYLAMINE

See N-(tert-Butoxycarbonyl)propargylamine

BOILING CHIPS

See Carborundum Boiling Chips

BORANE-AMMONIA COMPLEX

See Ammonia Borane, Reagent

BORATE BUFFER SOLUTION, pH 9.5 **ITEM 2037**

APHA for Nitrogen

Suitability as buffer Pass Test

DOT NR

24363 500 ML
24364 6 X 500 ML
24361 4 L

Specific Gravity 1.000

BORAX

See Sodium Tetraborate, Decahydrate

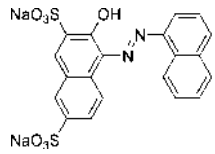
BORDEAUX **ITEM 118**

Indicator for iodate and bromate oxidimetry.

$C_{20}H_{12}N_2O_7S_2Na_2$ F.W. 502.43

CAS # 5858-33-3 DOT NR

17201 25 G
17202 100 G



BORIC ACID, 99.999% ITEM A1146

H_3BO_3 F.W. 61.83

Assay (metals basis) 99.999%

CAS # 10043-35-3 DOT NR NFPA # 2-0-0

17393	20 G
17391	100 G
17392	500 G

BORIC ACID, BIO-REFINED™ ITEM 1907

H_3BO_3 F.W. 61.83

Assay 99.5% min.
Insoluble matter 0.005%
Non-volatile subs in Methanol/HCl 0.05%
Phosphate 0.0005%
Absorbance at 260 nm (0.5M in H2O) 0.015 max
pH (0.5M in water) 3.0-5.0
Loss on drying @ 70 C 0.5%
Chloride 0.0003%
Sulfate 0.0005%
Absorbance at 280 nm (0.5M in H20) 0.010 max

Al 5 ppm
Bi 5 ppm
Co 5 ppm
Fe 5 ppm
Mg 5 ppm
Na 50 ppm
Sr 5 ppm
As 0.5 ppm
Ca 10 ppm
Cr 5 ppm
K 50 ppm
Mn 5 ppm
Ni 5 ppm
Zn 5 ppm
Ba 5 ppm
Cd 5 ppm
Cu 5 ppm
Li 5 ppm
Mo 5 ppm
Pb 5 ppm

CAS # 10043-35-3 DOT NR

17371	500 G

BORIC ACID, REAGENT (ACS), GRANULAR ITEM 648

H_3BO_3 F.W. 61.83

Assay 99.5% min.
Nonvolatile with methanol 0.05%
Phosphate 0.001%
Iron 0.001%
Heavy metals 0.001%
Insoluble in methanol 0.005%
Chloride 0.001%
Sulfate 0.01%
Calcium 0.005%

CAS # 10043-35-3 DOT NR NFPA # 2-0-0

17401	500 G
17402	2.5 KG
17403	10 KG
17404	50 KG
17405	136 KG

BORIC ACID, REAGENT (ACS), POWDER ITEM 1332

H_3BO_3 F.W. 61.83

Assay 99.5% min.
Nonvolatile with methanol 0.05%
Phosphate 0.001%
Iron 0.001%
Heavy Metals (as Pb) 0.001%
Insoluble in methanol 0.005%
Chloride 0.001%
Sulfate 0.01%
Calcium 0.005%

CAS # 10043-35-3 DOT NR NFPA # 2-0-0

17381	500 G
17382	2.5 KG
17383	10 KG
17384	50 KG
17385	136 KG

BORIC ACID SOLUTION, 5% W/V ITEM 2039

ASTM Reagent No. 136

H_3BO_3 F.W. 61.83

Appearance - clear, colorless

CAS # 10043-35-3 DOT NR

24381	4 L

Specific Gravity 1.000

BORIC ACID, 4% ABSORBANT ITEM 2387

Contains: Bromocresol Green and Methyl Red (green endpoint)

Concentration 4% w/v

DOT NR

17361	4 L

Specific Gravity 1.000

BORIC ACID ABSORBANT SOLUTION, 2% ITEM 2038

For Nitrogen Ammonia

H_3BO_3 F.W. 61.83

Concentration 2% w/v ± 1% of stated value

CAS # 10043-35-3 DOT NR

24371	4 L

Specific Gravity 1.000

BORIC ANHYDRIDE

See Boron Oxide, 99.999%

BORON, 10,000 ppm ICP STANDARD SOLUTION ITEM 1713

Concentration 10,000 ± 100 ug/ml Matrix: <1% NH4OH
NIST Traceable

DOT NR NFPA # 2-0-0

22130	100 ML
22132	500 ML

Specific Gravity 1.000

BORON, 1000 ppm ICP STANDARD SOLUTION ITEM 1712

Concentration 1,000 ± 10 ug/ml Matrix: <1% NH4OH
NIST Traceable

DOT NR NFPA # 2-0-0

22120	100 ML
22122	500 ML

Specific Gravity 1.000

BORON, 1000 ppm STANDARD SOLUTION — ITEM 741

AA, colorimetric or gravimetric standard

Concentration 1,000 ± 10 ug/ml Matrix: boric acid in water
NIST Traceable

DOT NR NFPA # 2-0-0

70040	100 ML
70042	500 ML

Specific Gravity 1.000

BORON NITRIDE, 99% — ITEM A1167

BN F.W. 24.82

Assay (B + N) 99%

CAS # 10043-11-5 DOT NR

17461	50 G

BORON OXIDE, 99.999% — ITEM 1220

B_2O_3 F.W. 69.62

Assay (metals basis) 99.999% min.

CAS # 1303-86-2 DOT NR NFPA # 2-0-1

17413	5 G
17411	25 G

BORON PHOSPHATE, 99.98% — ITEM 1215

BPO_4 F.W. 105.78

Assay (metals basis) 99.98%

CAS # 13308-51-5 DOT NR

17450	25 G
17451	100 G
17452	500 G

BRIJ® 35 — ITEM 2663

CAS # 9002-92-0 DOT NR

17491	100 G
17492	500 G
17493	2.5 KG

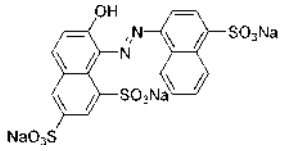
BRILLIANT PONCEAU — ITEM 120

Indicator for bromate oxidimetry.

$C_{20}H_{11}N_2O_{10}S_3Na_3$ F.W. 604.47

CAS # 2611-82-7 DOT NR

17602 100 G



BRILLIANT YELLOW — ITEM 674

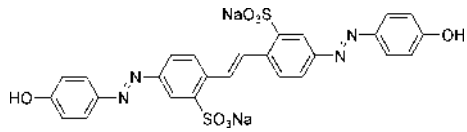
Water soluble pH indicator.

$C_{26}H_{18}N_4O_8S_2Na_2$ F.W. 624.57

Visual transition 6.0-8.0, yellow-orange

CAS # 3051-11-4 DOT NR NFPA # 1-0-0

17701 25 G



BROMATE, 1,000 ppm, ION CHROMATOGRAPHY STANDARD SOLUTION — ITEM 3754

Concentration (as bromate) 1,000 ± 10 ug/mL Matrix: sodium bromate, water

DOT NR

23811	100 ML
23812	500 ML

Specific Gravity 1.000

BROMCRESOL GREEN, SODIUM SALT, REAGENT (ACS) — ITEM 675

Water soluble pH indicator.

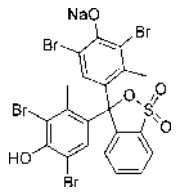
$C_{21}H_{13}Br_4O_5SNa$ F.W. 720.02

Clarity of solution -Pass Test Visual transition pH 3.8-5.4, yellow-blue

CAS # 62625-32-5 DOT NR NFPA # 1-1-0

17801	5 G
17802	25 G
17803	250 G

Specific Gravity 1.100



BROMCRESOL GREEN SOLUTION, 0.1% AQUEOUS — ITEM 2040

$C_{12}H_{13}Br_4O_5SNa$ F.W. 720.02

Visual transition pH 3.8-5.4, yellow-blue

CAS # 62625-32-5 DOT NR NFPA # 0-0-0

24391 500 ML

Specific Gravity 1.000

BROMCRESOL GREEN-METHYL RED MIXED INDICATOR SOLUTION in ETHYL ALCOHOL — ITEM 9352

Suitability as indicator - Pass Test

DOT 3/II

24396 500 ML
24397 1 L

BROMCRESOL PURPLE, SODIUM SALT, REAGENT (ACS) — ITEM 676

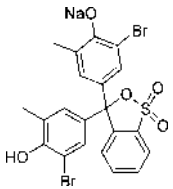
Water soluble pH indicator.

$C_{21}H_{15}Br_2O_5SNa$ F.W. 562.22

Clarity of solution - Pass test Visual transition pH 5.2-6.8, yellow-purple

CAS # 62625-30-3 DOT NR NFPA # 1-1-0

17901 5 G
17902 25 G



BROMCRESOL PURPLE SOLUTION, 0.04% AQUEOUS — ITEM 2041

$C_{21}H_{15}Br_2O_5SNa$ F.W. 562.22

Visual transition pH 5.2-6.8, yellow-purple

CAS # 62625-30-3 DOT NR

24401 500 ML

Specific Gravity 1.000

BROMIDE, 1,000 ppm, ION CHROMATOGRAPHY STANDARD SOLUTION — ITEM 3755

Concentration (as Br) 1,000 ± 10 ug/ml Matrix: KBr, water

DOT NR

23821 100 ML
23822 500 ML

Specific Gravity 1.000

BROMIDE, 1000 ppm STANDARD SOLUTION — ITEM 742

Volumetric, colorimetric or IC standard

Concentration 1,000 ± 10 ug/ml Matrix: KBr in water
NIST Traceable

DOT NR

70050 100 ML
70052 500 ML

Specific Gravity 1.000

1-BROMOBUTANE, 99% — ITEM 2597

n-butyl bromide

$CH_3(CH_2)_3Br$ F.W. 137.03

Assay (GC-FID), 98.5% min H2O (KF), 0.05% min
Appearance - Clear, colorless liquid

CAS # 109-65-9 DOT 3/II NFPA # 2-3-0

17761 500 G
17762 2.5 KG

Specific Gravity 1.276

1-BROMO-1-BUTYNE, 98% — ITEM 5560

Not on the TSCA inventory.

$BrC{\equiv}CCH_2CH_3$ F.W. 132.99

Assay (GC-FID) - 97.5% min.

CAS # 50405-39-5 DOT 3/II

20661 5 G
20662 25 G
20663 100 G
20664 500 G
20665 2.5 KG

Specific Gravity 1.460

B

1-BROMO-2-BUTYNE, 98% ITEM 3015

Not on the TSCA inventory.

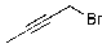
$CH_3C{\equiv}CCH_2Br$ F.W. 132.99

Assay (GC-FID), 97.5% min
H2O (KF), 0.1% max
Clarity / Form - Clear, liquid
Identification by GC/MS - Conforms
Color - Colorless to yellow

CAS # 3355-28-0 DOT 3/III

80141	5 G
80142	25 G
80143	100 G
80144	500 G
80145	2.5 KG
80146	30 KG
80147	85 KG
80148	300 KG

Specific Gravity 1.519



4-BROMO-1-BUTYNE, 98% ITEM 5318

1-Bromo-3-butyne. Not on the TSCA inventory.

$HC{\equiv}CCH_2CH_2Br$ F.W. 132.99

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless to amber liquid
Identification by GC/MS - Conforms

CAS # 38771-21-0 DOT 3/III

16711	5 G
16712	25 G
16713	100 G
16714	500 G
16715	2.5 KG

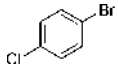
4-BROMOCHLOROBENZENE ITEM 5201

BrC_6H_4Cl F.W. 191.45

Assay (GC-FID), 98.5% min
Appearance - White crystal/solid
Identification by GC/MS - Conforms

CAS # 106-39-8 DOT NR

Please Inquire For Sizes



1-BROMO-4-CHLOROBUTANE, 98% ITEM 2969

$Cl(CH_2)_4Br$ F.W. 171.47

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 6940-78-9 DOT 3/6.1/III

89954	100 G
89955	500 G
89956	2 KG

Specific Gravity 1.490

1-BROMO-5-CHLOROPENTANE, 98% ITEM 5240

$Br(CH_2)_5Cl$ F.W. 185.49

Assay (GC-FID), 98.0% min

CAS # 54512-75-3

Please Inquire For Sizes

Specific Gravity 1.408

1-BROMO-3-CHLOROPROPANE, 99% ITEM 2722

$Br(CH_2)_3Cl$ F.W. 157.44

Assay (GC-FID), 98.5% min
Color - Colorless
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 109-70-6 DOT 6.1/III

17771	100 G
17772	500 G
17773	2 KG

Specific Gravity 1.590

BROMOCYCLOHEPTANE

See Cycloheptylbromide

BROMOCYCLOPROPANE

See Cyclopropyl Bromide

1-BROMODECANE, 98% ITEM 2598

$CH_3(CH_2)_9Br$ F.W. 221.19

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless to yellow liquid
Identification by GC/MS - Conforms

CAS # 112-29-8 DOT NR

17912	500 G
17913	2.5 KG

Specific Gravity 1.066

1-BROMO-6,6-DIMETHYL-2-HEPTEN-4-YNE, cis/trans, 98% — ITEM 3017

Not on the TSCA inventory.

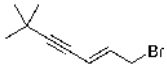
$(CH_3)_3CC{\equiv}CCH{=}CHCH_2Br$ F.W. 201.11

Assay (GC-FID cis + trans), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid % cis isomer, Report
% trans isomer, Report

CAS # 126764-15-6 DOT 3/II

80162	5 G
80163	25 G
80164	100 G

Specific Gravity 1.120



1-BROMO-2,2-DIMETHYLPROPANE, 98% — ITEM 2379

Neopentyl bromide

$BrCH_2C(CH_3)_3$ F.W. 151.05

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 630-17-1 DOT 3/II NFPA # 2-3-0

16861	5 G
16862	25 G
16863	100 G
16864	1 KG
16865	20 KG

Specific Gravity 1.199

1-BROMODODECANE, 97% — ITEM 2599

$CH_3(CH_2)_{11}Br$ F.W. 249.24

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms

CAS # 143-15-7

17921	100 G
17922	500 G
17923	2.5 KG

Specific Gravity 1.038

BROMOETHANE, 98% — ITEM 919

Ethyl bromide

CH_3CH_2Br F.W. 108.97

Assay (GC-FID), 97.5% min Appearance - Clear, colorless to yellow liquid

CAS # 74-96-4 DOT 6.1/II NFPA # 2-3-0

38371	500 G
38372	6 X 500 G

Specific Gravity 1.460

1-BROMOHEPTANE, 99% — ITEM 2600

Heptyl bromide

$CH_3(CH_2)_6Br$ F.W. 179.11

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to lt. yellow liquid

CAS # 629-04-9 DOT 3/III

17931	100 G
17932	500 G

Specific Gravity 1.140

7-BROMO-1-HEPTENE, 98% — ITEM 5252

Not on the TSCA inventory.

$CH_2{=}CH(CH_2)_5Br$ F.W. 177.08

Assay (GC-FID) 97.5% min. Identification by GC/MS - Conforms
1,4-Dibromobutane 0.5% max. 1,9-Decadiene 2.0% max.
Color - Colorless to light yellow Clarity / Form - Clear, liquid

CAS # 4117-09-3 DOT 3/III

14472	5 G
14473	50 G
14474	250 G
14475	1 KG
14476	20 KG
14477	225 KG

Specific Gravity 1.162

7-BROMO-1-HEPTENE, 96% — ITEM 9561

Not on the TSCA inventory.

$CH_2{=}CH(CH_2)_5Br$ F.W. 177.08

Assay (GC-FID) 95% min. Identification by GC/MS - Conforms

CAS # 4117-09-3 DOT 3/III

20591	5 G
20592	50 G
20593	250 G
20594	1 KG
20595	20 KG
20596	225 KG

B

1-BROMOHEXANE, 98% ITEM 2601

$CH_3(CH_2)_5Br$ F.W. 165.08

Assay 98% min.

CAS # 111-25-1 DOT 3/III NFPA # 1-2-0

17941	100 G
17942	500 G
17943	2.5 KG

Specific Gravity 1.174

1-BROMO-2-METHYLPROPANE

See Isobutyl Bromide

3-BROMO-2-METHYL-1-PROPENE, 98% ITEM 5502

Methallyl Bromide, Not on the TSA inventory.

$CH_2=C(CH_3)CH_2Br$ F.W. 135.00

Assay (GC-FID), 97.5% min
Color (APHA), 150 max
Clarity / Form, Clear liquid
Identification by GC/MS - Conforms
Stabilizer (Hydroquinone), Confirm presence

CAS # 1458-98-6 DOT 3/8/II NFPA # 2-4-1

17831	10 G
17832	50 G
17833	250 G
17834	1 KG
17835	3.2 KG
17836	25 KG
17837	72.5 KG
17838	260 KG

Specific Gravity 1.339

1-BROMONONANE, 98% ITEM 2602

$CH_3(CH_2)_8Br$ F.W. 207.16

Assay 98% min.

CAS # 693-58-3 DOT NR

17961	25 G
17962	100 G
17963	500 G

1-BROMOOCTANE, 98% ITEM 3018

$Br(CH_2)_7CH_3$ F.W. 193.13

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless to yellow liquid
Identification by GC/MS - Conforms

CAS # 111-83-1 DOT 9/III

80172	250 G
80171	1 KG

Specific Gravity 1.118

8-BROMO-1-OCTENE, 98% ITEM 5343

Not on the TSCA inventory.

$Br(CH_2)_6CH=CH_2$ F.W. 191.11

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid
1-Methyl-2-pyrrolidone, 0.05% max
Color - Colorless to yellow

CAS # 2695-48-9 DOT NR

18271	5 G
18272	50 G
18273	250 G
18274	1 KG
18275	20 KG
18276	225 KG

Specific Gravity 1.139

1-BROMO-2-OCTYNE, 96% ITEM 3019

Requires refrigeration. Not on the TSCA inventory.

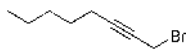
$CH_3(CH_2)_4C\equiv CCH_2Br$ F.W. 189.10

Assay 96% min.

CAS # 18495-27-7 DOT 9/III

80181	5 G
80182	25 G
80183	100 G

Specific Gravity 1.180



1-BROMOPENTANE, 99% ITEM 2724

$CH_3(CH_2)_4Br$ F.W. 151.05

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 110-53-2 DOT 3/III

17971	100 G
17972	500 G
17973	2 KG
17974	20 KG
17975	68 KG
17976	250 KG

Specific Gravity 1.218

5-BROMO-1-PENTENE, 97% ITEM 4737

$Br(CH_2)_3CH=CH_2$ F.W. 149.04

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Color(APHA), 150 max Clarity / Form - Clear, liquid

CAS # 1119-51-3 DOT 3/III

21381	10 G
21382	50 G
21383	250 G
21384	1 KG

Specific Gravity 1.258

1-BROMO-2-PENTYNE, 97% ITEM 3020

Not on the TSCA inventory.

$CH_3CH_2C{\equiv}CCH_2Br$ F.W. 147.01

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 16400-32-1 DOT 3/III

80191	5 G
80192	25 G
80193	100 G
80194	500 G
80195	2.5 KG

Specific Gravity 1.393

1-BROMO-3-PHENYLPROPANE, 98% ITEM 2723

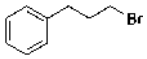
$C_6H_5(CH_2)_3Br$ F.W. 199.10

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 637-59-2 DOT NR

18141	50 G
18142	250 G

Specific Gravity 1.308



4-BROMOPHTHALIC ANHYDRIDE, 98% ITEM 4637

5-BROMO-1,3-ISOBENZOFURANDIONE

$BrC_6H_3(CO)_2O$ F.W. 227.02

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms

CAS # 86-90-8 DOT NR

Please Inquire For Sizes

1-BROMOPROPANE, 99% ITEM 2603

Propyl bromide

$CH_3CH_2CH_2Br$ F.W. 123.00

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 106-94-5 DOT 3/II NFPA # 2-2-0

17983	100 G
17984	500 G
17985	2 KG
17986	25 KG

Specific Gravity 1.354

2-BROMOPROPANE, 99% ITEM 2939

Isopropyl bromide

$(CH_3)_2CHBr$ F.W. 123.00

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms

CAS # 75-26-3 DOT 3/II

17991	100 G
17992	500 G

Specific Gravity 1.310

B

cis-1-BROMOPROPENE, 98% — ITEM 5310

Stored over copper.

$BrCH=CHCH_3$ F.W. 120.98

Assay (GC-FID) 97.5% min Cis:Trans ratio 95:5 min.

CAS # 590-13-6 DOT 3/II

20471	10 G
20472	50 G
20473	250 G
20474	1 KG

2-BROMOPROPENE, 99% — ITEM 5283

$CH_3C(Br)=CH_2$ F.W. 120.98

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms
Stabilizer(BHT), Confirm presence H2O (KF), 0.1% max
Color - Colorless to light yellow Clarity / Form - Clear, liquid

CAS # 557-93-7 DOT 3/II NFPA # 2-3-0

14941	10 G
14942	50 G
14943	250 G
14944	1 KG
14945	25 KG
14947	75 KG
14946	250 KG

Specific Gravity 1.362

3-BROMOPROPENE

See Allyl Bromide, 98%

2-BROMOPYRIDINE, 98% — ITEM 328

C_5H_4NBr F.W. 158.01

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 109-04-6 DOT NR

18200	25 G
18201	100 G
18202	500 G
18203	2.5 KG

Specific Gravity 1.634

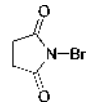
N-BROMOSUCCINIMIDE, 98% — ITEM 3496

$C_4H_4O_2NBr$ F.W. 177.99

Assay (Redox titration), 97.5% - 102.5% Melting point/range 173-182 C
Appearance - White to yellow powder/solid

CAS # 128-08-5 DOT 8/II NFPA # 3-0-1

10391	250 G
10392	1 KG



2-BROMOTHIOPHENE, 98% — ITEM 3719

C_4H_3SBr F.W. 163.04

Assay 98%

CAS # 1003-09-4 DOT 6.1/3/II

10411	50 G
10412	250 G

1-BROMO-4-TRIMETHYLSILYLBENZENE, 97% — ITEM 3469

Not on the TSCA inventory

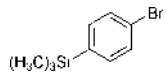
$BrC_6H_4Si(CH_3)_3$ F.W. 229.20

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 6999-03-7 DOT NR

10421	1 G
10422	5 G

Specific Gravity 1.173



1-BROMO-2-TRIMETHYLSILYLETHYNYLBENZENE

See 1-Trimethylsilyl Ethynyl-2-Bromobenzene

3-BROMO-1-TRIMETHYLSILYL-1-PROPYNE, 97% — ITEM 3420

Refrigerate and store under inert gas. Not on the TSCA inventory.

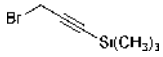
$BrCH_2C{\equiv}CSi(CH_3)_3$ F.W. 191.15

Assay (GC-FID), 96.5% min
Color - Colorless to light yellow
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 38002-45-8 DOT 9/III

18311 10 G
18312 50 G
18314 500 G

Specific Gravity 1.351



BROMPHENOL BLUE, FREE ACID, REAGENT (ACS) — ITEM 2562

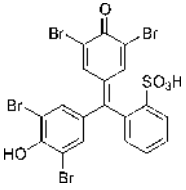
Organic soluble pH indicator

$C_{19}H_{10}Br_4O_5S$ F.W. 669.97

Clarity of alcohol solution - Pass test
Visual transition interval 3.0-4.6, yellow-blue

CAS # 115-39-9 DOT NR NFPA # 1-0-0

18021 5 G
18022 25 G



BROMPHENOL BLUE, SODIUM SALT, REAGENT (ACS) — ITEM 677

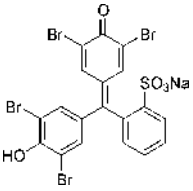
Water soluble pH indicator

$C_{19}H_9Br_4O_5SNa$ F.W. 691.97

Clarity of solution- Pass Test
Visual transition 3.0-4.6, yellow-blue

CAS # 34725-61-6 DOT NR NFPA # 1-0-0

18001 5 G
18002 25 G



BROMPHENOL BLUE SOLUTION, 0.1% AQUEOUS — ITEM 2042

$C_{19}H_9Br_4O_5SNa$ F.W. 691.97

Visual transition pH 3.0-4.6, yellow-blue

CAS # 34725-61-6 DOT NR

24411 500 ML

Specific Gravity 1.000

BROMTHYMOL BLUE, SODIUM SALT, REAGENT (ACS) — ITEM 679

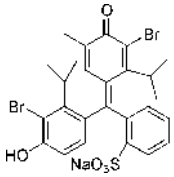
Water soluble pH indicator

$C_{27}H_{27}Br_2O_5SNa$ F.W. 646.39

Clarity of solution - Pass Test
Visual transition pH 6.0-7.6, yellow-blue

CAS # 34722-90-2 DOT NR

18301 5 G
18302 25 G



BROMTHYMOL BLUE SOLUTION, 0.04% AQUEOUS — ITEM 2043

$C_{27}H_{27}Br_2O_5SNa$ F.W. 646.39

Visual transition pH 6.0-7.6, yellow-blue

CAS # 34722-90-2 DOT NR

24421 500 ML

Specific Gravity 1.000

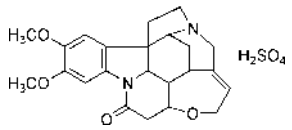
BRUCINE SULFATE, REAGENT (ACS) — ITEM 778

$(C_{23}H_{26}N_2O_4)_2{\bullet}H_2SO_4{\bullet}7H_2O$ F.W. 1013.13

Clarity of solution - Pass Test
Residue on ignition 0.1%
Loss on drying at 105 C 13.0% max.
Sensitivity to nitrate - pass test

CAS # 5787-00-8 DOT 6.1/II NFPA # 4-0-1

18352 25 G



BUFFER CONCENTRATE, pH 4.00 ITEM 2340

pH of 1:4 dilution @ 25 C 4.00 ± 0.02 NIST Traceable

DOT NR

28511 500 ML

Specific Gravity 1.000

BUFFER CONCENTRATE, pH 7.00 ITEM 2335

pH of 1:25 dilution @ 25 C 7.00 ± 0.02 NIST Traceable

DOT NR

28501 500 ML

Specific Gravity 1.004

BUFFER CONCENTRATE, pH 10.00 ITEM 2341

pH of 1:4 dilution @ 25 C 10.00 ± 0.02 NIST Traceable

DOT NR

28521 500 ML

BUFFER FOR WATER HARDNESS

See Water Hardness Buffer Solution

BUFFER pH 4, 7, 10 KIT ITEM 2549

6 x 500 ml kit contains 2 x 500 ml of each pH 4 red (GFS 1634), pH 7 yellow (GFS 1639) and pH 10 blue (GFS 1645). The 3 x 4 l kit contains 1 x 4 l of each of the above items.

Lot number # 1634 pH 4 buffer Lot number # 1639 pH 7 buffer
Lot number # 1645 pH 10 buffer

DOT NR

18331 6 X 500 ML
18332 3 X 4 L

BUFFER, pH 10 FOR EDTA TITRATIONS

See Ammoniacal Buffer, pH 10

BUFFER, pH INDICATOR STICKS

See Indicator Sticks, pH 0-14

BUFFER SOLUTION, pH 1.00 ITEM 2325

pH (@ 25 C) 1.00 ± 0.06 NIST Traceable

DOT NR

18342 500 ML
18343 6 X 500 ML
18341 4 L
18345 20 L

Specific Gravity 1.000

BUFFER SOLUTION, pH 1.68 ITEM 1631

pH (@ 25 C) 1.68 ± 0.06 NIST Traceable

DOT NR

18371 500 ML
18373 6 X 500 ML
18372 4 L
18375 4 X 4 L
18374 20 L

Specific Gravity 1.003

BUFFER SOLUTION, pH 2.00 ITEM 1632

pH (@ 25 C) 2.00 ± 0.03 NIST Traceable

DOT NR

18381 500 ML
18385 6 X 500 ML
18382 4 L
18386 4 X 4 L
18384 20 L

Specific Gravity 1.000

BUFFER SOLUTION, pH 3.00 ITEM 1633

pH (@ 25 C) 3.00 ± 0.03 NIST Traceable

DOT NR

18391 500 ML
18393 6 X 500 ML
18392 4 L

Specific Gravity 1.003

BUFFER SOLUTION, pH 4.00 ITEM 680

pH (@ 25 C) 4.00 ± 0.02 NIST Traceable

DOT NR

18401 500 ML
18406 6 X 500 ML
18402 4 L
18405 4 X 4 L
18404 20 L

Specific Gravity 1.005

BUFFER SOLUTION, pH 4.00, (COLOR CODED RED) ITEM 1634

pH (@ 25 C) 4.00 ± 0.02 NIST Traceable

DOT NR

18411 500 ML
18415 6 X 500 ML
18412 4 L
18414 4 X 4 L
18413 20 L

Specific Gravity 1.005

BUFFER SOLUTION, pH 5.00 — ITEM 1635

pH (@ 25 C) 5.00 ± 0.02 NIST Traceable

DOT NR

18431	500 ML
18435	6 X 500 ML
18432	4 L
18436	4 X 4 L
18434	20 L

Specific Gravity 1.003

BUFFER SOLUTION, pH 5.50 — ITEM 1636

pH (@ 25 C) 5.50 ± 0.02 NIST Traceable

DOT NR

18451	500 ML
18452	4 L

Specific Gravity 1.003

BUFFER SOLUTION, pH 6.00 — ITEM 1637

pH (@ 25 C) 6.00 ± 0.02 NIST Traceable

DOT NR

18471	500 ML
18473	6 X 500 ML
18472	4 L
18475	4 X 4 L
18474	20 L

Specific Gravity 1.003

BUFFER SOLUTION, pH 6.86 — ITEM 1638

pH (@ 25 C) 6.86 ± 0.02 NIST Traceable

DOT NR

18491	500 ML
18493	6 X 500 ML
18492	4 L
18495	4 X 4 L
18494	20 L

Specific Gravity 1.003

BUFFER SOLUTION, pH 7.00 — ITEM 681

pH (@ 25 C) 7.00 ± 0.02 NIST Traceable

DOT NR NFPA # 0-0-0

18501	500 ML
18506	6 X 500 ML
18502	4 L
18505	4 X 4 L
18504	20 L

Specific Gravity 1.003

BUFFER SOLUTION, pH 7.00, (COLOR CODED YELLOW) — ITEM 1639

pH (@ 25 C) 7.00 ± 0.02 NIST Traceable

DOT NR

18511	500 ML
18515	6 X 500 ML
18512	4 L
18514	4 X 4 L
18513	20 L

Specific Gravity 1.003

BUFFER SOLUTION, pH 7.00, (COLOR CODED GREEN) — ITEM 1640

pH (@ 25 C) 7.00 ± 0.02 NIST Traceable

DOT NR

18521	500 ML
18525	6 X 500 ML
18522	4 L
18524	4 X 4 L
18523	20 L

Specific Gravity 1.003

BUFFER SOLUTION, pH 7.38 — ITEM 1641

pH (@ 25 C) 7.38 ± 0.02 NIST Traceable

DOT NR

18531	500 ML
18532	4 L

Specific Gravity 1.003

BUFFER SOLUTION, pH 8.00 — ITEM 1642

pH (@25 C) 8.00 ± 0.02 NIST Traceable

DOT NR

18541	500 ML
18545	6 X 500 ML
18542	4 L
18544	20 L

Specific Gravity 1.003

BUFFER SOLUTION, pH 9.00 — ITEM 1643

pH (@ 25 C) 9.00 ± 0.02 NIST Traceable

DOT NR

18551	500 ML
18554	6 X 500 ML
18552	4 L
18553	20 L

Specific Gravity 1.002

BUFFER SOLUTION, pH 9.18 ITEM 1644

pH (@ 25 C) 9.18 ± 0.02 NIST Traceable

DOT NR

18561	500 ML
18565	6 X 500 ML
18562	4 L
18566	4 X 4 L
18564	20 L

Specific Gravity 1.003

BUFFER SOLUTION, pH 10.00 ITEM 682

pH 10 (@ 25C) 10.00 ± 0.03 NIST Traceable

DOT NR

18601	500 ML
18606	6 X 500 ML
18602	4 L
18605	4 X 4 L
18604	20 L

Specific Gravity 1.004

BUFFER SOLUTION, pH 10.00, (COLOR CODED BLUE) ITEM 1645

pH (@ 25 C) 10.00 ± 0.03 NIST Traceable

DOT NR

18571	500 ML
18575	6 X 500 ML
18572	4 L
18574	4 X 4 L
18573	20 L

Specific Gravity 1.004

BUFFER SOLUTION, pH 11.00 ITEM 2548

pH (@ 25 C) 11.00 ±0.08 NIST Traceable

DOT NR

18481	500 ML
18482	6 X 500 ML
18483	4 L
18484	4 X 4 L
18485	20 L

Specific Gravity 1.003

BUFFER SOLUTION, pH 11.33 ITEM 1646

pH (@ 25 C) 11.33 ± 0.08 NIST Traceable

DOT NR

18581	500 ML
18582	4 L

Specific Gravity 1.003

BUFFER SOLUTION, pH 12.00 ITEM 1647

pH (@ 25 C) 12.00 ±0.08 NIST Traceable

DOT NR

18611	500 ML
18615	6 X 500 ML
18612	4 L
18614	20 L

Specific Gravity 1.003

BUFFER SOLUTION, pH 12.45 ITEM 2176

pH (@ 25 C) 12.45 ±0.03 NIST Traceable

DOT NR

18363	500 ML
18364	6 X 500 ML
18361	4 L
18365	4 X 4 L
18362	20 L

BUTANEDIOIC ACID

See Succinic Acid

1,4-BUTANEDIOL DIGLYCIDYL ETHER ITEM 3495

1,4-bis(2,3-epoxypropoxy)butane

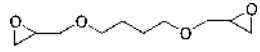
$C_{10}H_{18}O_4$ F.W. 202.28

Assay (GC-FID), 50.0% min Color - Colorless
Clarity / Form - Clear, liquid

CAS # 2425-79-8 DOT NR NFPA # 2-1-0

10431	100 ML
10432	1 L
10433	19 L

Specific Gravity 1.050



1-BUTANOL

See n-Butyl Alcohol

2-BUTANONE

See Methyl Ethyl Ketone

cis-2-BUTENE, 99% — ITEM 3374

Cylinder deposit; Cylinder pressure 30.5 psi @ 21C

$CH_3CH=CHCH_3$ F.W. 56.11

Assay (by GC) 99.0% min.

CAS # 590-18-1 DOT 2.1 NFPA # 1-4-0

83681 50 G
83682 200 G

Specific Gravity 0.627

trans-2-BUTENE, 99% — ITEM 3375

Cylinder deposit; Cylinder pressure 30.5 psi @ 21C

$CH_3CH=CHCH_3$ F.W. 56.11

Assay (by GC) 99.0% min.

CAS # 624-64-6 DOT 2.1 NFPA # 1-4-0

83691 50 G
83692 200 G

Specific Gravity 0.610

cis-2-BUTEN-1-OL, 96% — ITEM 5542

19:1 cis/trans ratio

C_4H_8O F.W. 72.11

Assay (GC-FID Cis/Trans total), 95.0% min Cis:Trans 95:5 min ratio
Appearance - Clear, colorless to yellow liquid

CAS # 4088-60-2 DOT 3/III

Please Inquire For Sizes

3-BUTEN-1-OL, 98% — ITEM 3807

$H_2C=CHCH_2CH_2OH$ F.W. 72.11

Assay (GC-FID) - 97.5% min. Identification by GC/MS - Conforms
Water (KF) - 0.5% max. Color - < 150 APHA
Clarity / Form - Clear, liquid

CAS # 627-27-0 DOT 3/III NFPA # 2-3-1

16851 5 G
16852 50 G
16853 1 KG

Specific Gravity 0.838

BUTOXYBENZENE

See Butyl Phenyl Ether, 99%

N-(tert-BUTOXYCARBONYL) PROPARGYLAMINE, 98% — ITEM 5551

Not on the TSCA inventory.

$C_8H_{13}NO_2$ F.W. 155.19

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - White to tan solid/crystal

CAS # 92136-39-5 DOT NR

18281 5 G
18282 50 G
18283 250 G

2-BUTOXYETHANOL, 99% — ITEM 5414

$CH_3(CH_2)_3O(CH_2)_2OH$ F.W. 118.17

Assay (GC-FID), 98.5% min H2O (KF), 0.5% max
Appearance - Clear, colorless liquid

CAS # 111-76-2 DOT NR

18991 1 L
18992 4 L

Specific Gravity 0.900

2-(2-BUTOXYETHOXY)ETHANOL

See Diethylene Glycol Monobutyl Ether, 99%

4-(t-BUTOXY)PHENYLACETYLENE, 98% — ITEM 3490

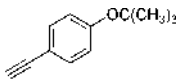
Not on the TSCA inventory

$(CH_3)_3COC_6H_4C{\equiv}CH$ F.W. 174.24

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 32569-86-1 DOT NR

10461 5 G



n-BUTYL ACETATE, REAGENT (ACS) — ITEM 2392

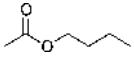
$CH_3COO(CH_2)_3CH_3$ F.W. 116.16

Assay 99.5% min Color (APHA) 10
Residue after evaporation 0.001% Titrable acid 0.0016 meq/g
Sustances darkened by sulfuric acid passes test Water (H2O) 0.1%
n-Butyl alcohol (C4H9OH) 0.2%

CAS # 123-86-4 DOT 3/II NFPA # 1-3-0

88131 500 ML
88132 2.5 L
88133 4 L

Specific Gravity 0.882



B

sec-BUTYL ACETATE, 98% ITEM 1100

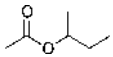
$CH_3COOCH(CH_3)CH_2CH_3$ F.W. 116.16

Assay (GC-FID), 98.0% min H2O (KF), 0.5% max

CAS # 105-46-4 DOT 3/II NFPA # 2-3-0

18621	125 ML
18622	500 ML
18623	4 L
18624	4 X 4 L
18625	19 L

Specific Gravity 0.864



tert-BUTYL ACETATE, 98.0% ITEM 1101

$CH_3COOC(CH_3)_3$ F.W. 116.16

Assay (GC-FID), 98.0% min Boiling range 2 degrees including 96 C

CAS # 540-88-5 DOT 3/II NFPA # 1-3-0

18631	125 ML
18632	500 ML
18633	4 L
18634	4 X 4 L
18635	19 L
18636	207 L

Specific Gravity 0.870

BUTYLACETYLENE (TERT)

See 3,3-Dimethyl-1-Butyne, 97%

n-BUTYL ALCOHOL, REAGENT (ACS) ITEM 865

1-Butanol

$CH_3(CH_2)_2CH_2OH$ F.W. 74.12

Assay 99.4% min. Color(APHA) 10 max.
Residue after evaporation 0.005% Titrable acid 0.0008 meq/g
Water 0.1% Butyl ether 0.2%
Carbonyl compounds (as Butyraldehyde) 0.01% max

CAS # 71-36-3 DOT 3/III NFPA # 1-3-0

18641	500 ML
18642	4 L

Specific Gravity 0.810

sec-BUTYL ALCOHOL, 99% ITEM 5244

$CH_3CH_2CH(OH)CH_3$ F.W. 74.12

Assay (GC-FID), 98.5% min H2O (KF), 0.5% max
Appearance - Clear, colorless liquid

CAS # 78-92-2 DOT 3/III NFPA # 1-3-0

20801	1 L
20802	4 L

Specific Gravity 0.808

tert-BUTYL ALCOHOL, REAGENT (ACS) ITEM 2393

2-Methyl-2-propanol

$(CH_3)_3COH$ F.W. 74.12

Assay 99.0% min Color (APHA) 20
Residue after evaporation 0.003% Titrable acid 0.001 meq/g
Carbonyl compounds (as formaldehyde) 0.01% Water (H2O) 0.1%

CAS # 75-65-0 DOT 3/II NFPA # 1-3-0

88141	500 ML
88142	2.5 L
88143	4 L

Specific Gravity 0.800

BUTYL ALCOHOL, ISO

See Isobutyl Alcohol

BUTYLAMINE, 99% ITEM 5393

$CH_3(CH_2)_3NH_2$ F.W. 73.14

Assay (GC-FID), 98.5% min Appearance - Clear, colorless to yellow liquid

CAS # 109-73-9 DOT 3/8/II

15731	100 ML
15732	500 ML

Specific Gravity 0.740

BUTYLATED HYDROXYTOLUENE

See 2,6-Di-tert-Butyl-4-Methylphenol

BUTYL BROMIDE

See 1-Bromobutane, 99%

BUTYL CHLORIDE

See 1-Chlorobutane

n-BUTYLDIETHANOLAMINE, REAGENT ITEM 1598

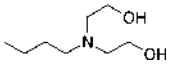
$C_8H_{19}NO_2$ F.W. 161.25

Identity - Pass Test Residue - Pass Test

CAS # 102-79-4 DOT 8/II

17952 500 ML
17951 6 X 500 ML

Specific Gravity 0.968



BUTYLDIGLYCOL

See Diethylene Glycol Monobutyl Ether, 99%

tert-BUTYLDIMETHYLSILYLACETYLENE, 98% ITEM 3024

Not on the TSCA inventory.

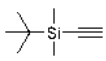
$(CH_3)_3CSi(CH_3)_2C{\equiv}CH$ F.W. 140.30

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 86318-61-8 DOT 3/II

80221 10 G
80222 50 G
80223 250 G
80224 1 KG

Specific Gravity 0.751



tert-BUTYLDIPHENYLCHLOROSILANE, 97% ITEM 3026

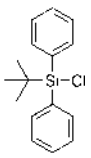
$(CH_3)_3CSi(C_6H_5)_2Cl$ F.W. 274.87

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Color - Colorless to amber Clarity / Form - Clear, liquid

CAS # 58479-61-1 DOT 8/II

80243 10 G
80244 50 G

Specific Gravity 1.057



BUTYL GLYCOL

See 2-Butoxyethanol, 99%

BUTYL IODIDE

See 2-Iodobutane, 1-Iodobutane

n-BUTYLMAGNESIUM CHLORIDE, 2M, in TETRAHYDROFURAN ITEM 5501

2 molar in tetrahydrofuran

C_4H_9MgCl F.W. 116.87

Molarity (Active Grignard) 2.0 ± 0.1M Particulate Matter: Free of visible particulates

CAS # 693-04-9 DOT 4.3/3/I

17061 194 KG

Specific Gravity 0.966

n-BUTYLMAGNESIUM CHLORIDE, 1.3 M, in DIBUTYL ETHER ITEM 5290

$CH_3(CH_2)_3MgCl$ F.W. 116.88

Concentration 1.3M min. Magnesium (by ICP) - report
Tetrahydrofuran (by gc) - not detected Diethyl ether (by gc) - not detected

CAS # 693-04-9 DOT 4.3/3/II NFPA # 3-3-2

Please Inquire For Sizes

tert-BUTYLMAGNESIUM CHLORIDE, 1 M, in TETRAHYDROFURAN ITEM 3721

Not on the TSCA inventory

$(CH_3)_3CMgCl$ F.W. 116.88

Concentration 1.0 M ± 0.1 Density - Report

CAS # 677-22-5 DOT 4.3/3/II NFPA # 3-3-3

10552 4 L
10554 100 L
10553 200 L

Specific Gravity 0.930

B

4-(tert-BUTYL)PHENYLACETYLENE, 95% ITEM 3028

Not on the TSCA inventory.

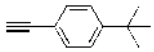
$(CH_3)_3CC_6H_4C{\equiv}CH$ F.W. 158.24

Assay (GC-FID), 94.0% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 772-38-3 DOT NR

80261	10 G
80262	50 G
80263	250 G
80264	1 KG

Specific Gravity 0.889



BUTYL PHENYL ETHER, 99% ITEM 4912

Butoxybenzene

$C_6H_5O(CH_2)_3CH_3$ F.W. 150.22

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms

CAS # 1126-79-0 DOT NR

16741	100 G
16742	500 G

Specific Gravity 0.933

2-BUTYN-1,4-DIACETATE

See 1,4-Diacetoxy-2-Butyne

2-BUTYN-1,4-DIOL DIACETATE

See 1,4-Diacetoxy-2-Butyne

1-BUTYNE, 98% ITEM 3029

Requires refrigeration. Cylinder deposit; Cylinder pressure 20 psi @ 35 C.
Inhibited with 0.001% Hydroquinone & 0.01% BHT.

$CH_3CH_2C{\equiv}CH$ F.W. 54.09

Assay (GC-FID), 97.5% min

CAS # 107-00-6 DOT 2.1

80271	25 G	**$**
80272	100 G	
80273	1 KG	
80274	12.5 KG	
80275	30 KG	
80276	70 KG	

Specific Gravity 0.678

2-BUTYNE, 98% ITEM 3030

Requires refrigeration. Crotonylene

$CH_3C{\equiv}CCH_3$ F.W. 54.09

Assay (GC-FID), 97.5% min Appearance - Clear, colorless liquid

CAS # 503-17-3 DOT 3/I NFPA # 1-4-0

80281	25 G
80282	100 G
80283	500 G

Specific Gravity 0.691

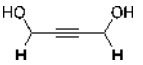
2-BUTYNE-1,4-DIOL, 98% ITEM 3031

$HOCH_2C{\equiv}CCH_2OH$ F.W. 86.09

Assay (GC-FID), 97.5% min Melting point 53-58 C

CAS # 110-65-6 DOT 6.1/III

80291	500 G



2-BUTYNOIC ACID, 98% ITEM 3032

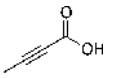
TETROLIC ACID

$CH_3C{\equiv}CCOOH$ F.W. 84.07

Assay (GC-FID), 97.5% min H2O (KF), 2% max

CAS # 590-93-2 DOT 8/II

80301	5 G
80302	25 G
80303	100 G



2-BUTYN-1-OL, 98% — ITEM 3033

Not on the TSCA inventory.

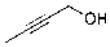
$CH_3C{\equiv}CCH_2OH$ F.W. 70.09

Assay (GC-FID) - 97.5% min.
Water (KF) - 0.5% max.
Clarity / Form - Clear Liquid
Identification by GC/MS - Conforms
Color - 50 APHA max.

CAS # 764-01-2 DOT 3/III NFPA # 2-2-0

80311	10 G
80312	50 G
80313	250 G
80314	1 KG
80315	2.5 KG
80316	18 KG
80317	41 KG
80318	185 KG

Specific Gravity 0.937



3-BUTYN-1-OL, 98% — ITEM 3034

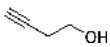
$HC{\equiv}CCH_2CH_2OH$ F.W. 70.09

Assay (GC-FID) - 97.5% min.
Water (KF) - 0.5% max.
Clarity / Form - Clear Liquid
Identification by GC/MS - Conforms
Color - 50 APHA max.

CAS # 927-74-2 DOT 3/III

80323	10 G
80324	50 G
80321	250 G
80322	1 KG
80325	3.5 KG
80326	17 KG
80327	41 KG
80328	185 KG

Specific Gravity 0.927



(±)-3-BUTYN-2-OL, 98% — ITEM 3035

$HC{\equiv}CCH(OH)CH_3$ F.W. 70.09

Assay (GC-FID), 97.5% min
H2O (KF), 1.0% max
Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 2028-63-9 DOT 6.1/3/II NFPA # 3-2-0

80331	25 G
80332	100 G

Specific Gravity 0.894

3-BUTYN-2-OL, 50%, AQUEOUS SOLUTION — ITEM 3411

$HC{\equiv}CCH(OH)CH_3$ F.W. 70.09

Assay 50 ± 2%

CAS # 2028-63-9 DOT 6.1/3/II NFPA # 3-2-0

89641	250 ML
89642	1 L

Specific Gravity 0.958

2-BUTYN-1-OL TETRAHYDRO-2H-PYRAN ETHER — ITEM 5589

Not on the TSCA inventory.

$(C_5H_9O)OCH_2C{\equiv}CCH_3$ F.W. 154.20

Assay (GC-FID), 96.5% min
Identification by GC/MS - Conforms

CAS # 39637-48-4 DOT 3/III

20631	5 G
20632	25 G

2-BUTYNYL ALDEHYDE DIETHYL ACETAL, 98% — ITEM 3037

Requires refrigeration. Not on the TSCA inventory.

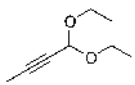
$CH_3C{\equiv}CCH(OC_2H_5)_2$ F.W. 142.20

Assay (GC-FID), 97.5% min

CAS # 2806-97-5 DOT 3/III

80351	10 G
80352	50 G

Specific Gravity 0.899



3-BUTYNYLAMINE, 97% — ITEM 9720

Not on the TSCA inventory.

$NH_2CH_2CH_2C{\equiv}CH$ F.W. 69.11

Assay (GC-FID), 96.5% min
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid
H2O (KF), 5.0% max
Color - Colorless to yellow

CAS # 14044-63-4 DOT 3/8/II

17611	5 G

Specific Gravity 0.844

B

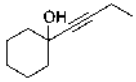
B

1-BUTYNYL-1-CYCLOHEXANOL ITEM 3808

Not on the TSCA inventory.

$CH_3CH_2C{\equiv}CC_6H_{10}OH$ F.W. 152.24

Please Inquire For Sizes



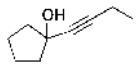
1-BUTYNYL-1-CYCLOPENTANOL ITEM 3809

Not on the TSCA inventory.

$CH_3CH_2C{\equiv}CC_5H_8OH$ F.W. 138.20

CAS # 155879-96-2

Please Inquire For Sizes



2-(2-BUTYNYLOXY)TETRAHYDROPYRAN

See 2-Butyn-1-ol Tetrahydro-2H-Pyran Ether

N-(3-BUTYNYL)PHTHALIMIDE, 95% ITEM 3440

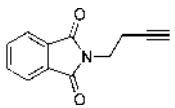
Not on the TSCA inventory.

$[C_6H_4(CO)_2N]CH_2CH_2C{\equiv}CH$ F.W. 199.21

Assay (GC-FID), 94.0% min
Color - White to beige
Identification by GC/MS - Conforms
Form - Fibrous crystal or powder

CAS # 14396-90-8 DOT NR

18421 10 G
18422 50 G



2-BUTYNYL-p-TOLUENESULFONATE, 98% ITEM 3038

Requires refrigeration. Not on the TSCA inventory.

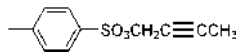
$CH_3C{\equiv}CCH_2OSO_2C_6H_4CH_3$ F.W. 224.28

Assay 98% min.
Melting point 47-8 C

CAS # 56563-37-2 DOT NR

80361 10 G
80362 50 G

Specific Gravity 1.190



3-BUTYNYL-p-TOLUENESULFONATE, 96% ITEM 3039

Not on the TSCA inventory.

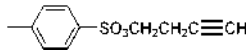
$HC{\equiv}CCH_2CH_2OSO_2C_6H_4CH_3$ F.W. 224.28

Assay (GC-FID), 95% min
Specific gravity - 1.185 to 1.195
Identification by GC/MS - Conforms

CAS # 23418-85-1 DOT NR

80371 10 G
80372 50 G
80373 1 KG

Specific Gravity 1.190



CADMIUM, 99.999%, SHOT ITEM A1299

Cd F.W. 112.41

CAS # 7440-43-9 DOT NR NFPA # 3-0-1

18652 25 G
18651 100 G

CADMIUM, 99.95%, SHOT ITEM 866

Cd F.W. 112.41

Assay (metals basis) 99.95% min.

CAS # 7440-43-9 DOT NR NFPA # 3-0-1

18671 100 G
18672 500 G

CADMIUM, METAL, 20-60 MESH, GRANULAR — ITEM 1697

Granular form for Cadmium Reduction method for Nitrate. See apparatus section for information about using this product in a reductor tube.

Cd F.W. 112.41

Particle size 20 - 60 mesh

Meets requirement for AWWA/APHA/WEF 4500-NO3-

CAS # 7440-43-9 DOT NR

18595	25 G
18591	100 G
18592	500 G

CADMIUM, POWDER, -60 MESH — ITEM 3787

Cd F.W. 112.41

Particle size -60 mesh

CAS # 7440-43-9 DOT 6.1/II

10561	25 G
10562	100 G
10563	500 G

CADMIUM, METAL, REAGENT (Mossy) — ITEM 1147

Cd F.W. 112.41

Assay 99.8% min.
Lead 0.01%
Iron 0.001%
Zinc 0.05%

CAS # 7440-43-9 DOT NR NFPA # 3-0-1

18661	100 G
18662	500 G

CADMIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1715

Concentration 10,000 ± 100 ug/ml
NIST Traceable
Matrix: <5% HNO3

DOT 8/III NFPA # 3-0-2

22150	100 ML
22152	500 ML

Specific Gravity 1.030

CADMIUM, 1000 ppm ICP STANDARD SOLUTION — ITEM 1714

Concentration 1,000 ± 10 ug/ml
NIST Traceable
Matrix: <5% HNO3

DOT 8/III NFPA # 3-0-1

22140	100 ML
22142	500 ML

Specific Gravity 1.030

CADMIUM, 1000 ppm STANDARD SOLUTION — ITEM 743

AA or colorimetric standard

Concentration 1,000 ± 10 ug/ml
NIST Traceable
Matrix: <5% HCl

DOT 8/III NFPA # 3-0-1

70060	100 ML
70062	500 ML

Specific Gravity 1.020

CADMIUM ACETATE, REAGENT — ITEM 867

$Cd(C_2H_3O_2)_2 \bullet 2H_2O$ F.W. 266.52

Assay 98%
Chloride 0.001%
Sulfate 0.005%
Iron 0.001%
Zinc 0.05%
Magnesium 0.005%
Sodium 0.05%
Insoluble 0.005%
Nitrate 0.003%
Copper 0.001%
Lead 0.005%
Calcium 0.005%
Potassium 0.02%

CAS # 5743-04-4 DOT 6.1/III NFPA # 3-0-0

18681	100 G
18682	500 G

CADMIUM BROMIDE, ANHYDROUS, 99.99% — ITEM A1323

$CdBr_2$ F.W. 272.22

CAS # 7789-42-6 DOT 6.1/III

18771	25 G

CADMIUM BROMIDE, TETRAHYDRATE, REAGENT — ITEM A1320

$CdBr_2 \bullet 4H_2O$ F.W. 344.27

Assay 98% min.
Nitrate 0.005%
Iron 0.002%
Chloride 0.05%
Sulfate 0.01%

CAS # 13464-92-1 DOT 6.1/III NFPA # 3-0-0

18691	100 G
18692	500 G

CADMIUM CARBONATE, 99.995% — ITEM 1334

$CdCO_3$ F.W. 172.42

Assay (metals basis) 99.995% min. Assay 96% min.

CAS # 513-78-0 DOT 6.1/III NFPA # 2-0-0

18751	25 G
18752	100 G

C

CADMIUM CHLORIDE, ANHYDROUS, REAGENT (ACS) — ITEM 868

$CdCl_2$ F.W. 183.32

Assay 99.0% min
Ammonium 0.01%
Sulfate 0.01%
Copper 10 ppm
Zinc 500 ppm
Potassium 200 ppm
Insoluble 0.01%
Nitrate and nitrite 0.003%
Iron 10 ppm
Lead 50 ppm
Sodium 500 ppm
Calcium 100 ppm

CAS # 10108-64-2 DOT 6.1/III NFPA # 3-0-0

18701	100 G
18702	500 G
18703	2.5 KG
18704	10 KG
18705	50 KG
18708	500 KG

C

CADMIUM CHLORIDE, HYDRATED, REAGENT (ACS) — ITEM 869

$CdCl_2 \bullet 2\text{-}1/2H_2O$ F.W. 228.35

Assay (as CdCl2) 79.5-81.0%
Ammonium 0.005%
Sulfate 0.005%
Iron 0.0005%
Zinc 0.05%
Potassium 0.02%
Insoluble 0.005%
Nitrate & nitrite 0.003%
Copper 0.0005%
Lead 0.005%
Sodium 0.05%
Calcium 0.005%

CAS # 7790-78-5 DOT 6.1/III NFPA # 3-0-0

18711	100 G
18712	500 G
18713	2.5 KG
18714	10 KG
18715	50 KG
18716	500 KG

CADMIUM FORMATE — ITEM A1353

$Cd(OOCH)_2$ F.W. 202.45

Insoluble 0.02%

CAS # 4464-23-7 DOT 6.1/III

18721	25 G

CADMIUM IODIDE, REAGENT — ITEM 870

CdI_2 F.W. 366.22

Insoluble 0.01%
Iodate 0.001%
Iron 0.001%
Zinc 0.05%
Chloride + Bromide 0.003%
Sulfate 0.005%
Lead 0.005%
Appearance - white to tan with no orange or red

CAS # 7790-80-9 DOT 6.1/III NFPA # 3-0-0

18731	100 G
18732	500 G
18733	2.5 KG

CADMIUM NITRATE, TETRAHYDRATE, REAGENT (ACS) — ITEM 871

$Cd(NO_3)_2 \bullet 4H_2O$ F.W. 308.48

Assay 99.0%
Chloride 0.005%
Calcium 0.02%
Copper 0.002%
Lead 0.005%
Insoluble 0.005%
Sulfate 0.002%
Magnesium 0.02%
Iron 0.001%
Zinc 0.05%

CAS # 10022-68-1 DOT 6.1/III NFPA # 3-0-1

18761	100 G
18762	500 G
18763	2.5 KG
18764	10 KG
18765	50 KG
18766	100 KG

CADMIUM OXIDE, REAGENT — ITEM 872

CdO F.W. 128.40

Insoluble in acetic acid 0.05%
Nitrate 0.005%
Copper 0.005%
Lead 0.01%
Chloride 0.002%
Sulfate 0.2%
Iron 0.002%

CAS # 1306-19-0 DOT 6.1/III NFPA # 3-0-0

18781	100 G
18782	500 G

CADMIUM PERCHLORATE, DEHYDRATED, REAGENT — ITEM 3722

Approximates dihydrate formulation; ca. 10% water. Reduced-moisture salt to promote synthetic organic reactions. Bartoli, et al., Eur. J. Org. Chem. (2003), 4611.

$Cd(ClO_4)_2 \bullet 2H_2O$ F.W. 347.36

Cadmium content 31.0-34.0%
Chloride 0.01%
Iron 0.002%
Insoluble matter 0.01%
Sulfate 0.005%
pH (5% solution) 1-4

CAS # 13760-37-7 DOT 6.1/III

10581	25 G
10582	100 G
10583	500 G

CADMIUM PERCHLORATE, HEXAHYDRATE, REAGENT — ITEM 265

Not on the TSCA inventory. For R&D use only.

$Cd(ClO_4)_2 \bullet 6H_2O$ F.W. 419.42

Cadmium content 25.5-27.0%
Chloride 0.01%
Iron 0.002%
Insoluble 0.01%
Sulfate 0.005%
pH (5% solution) 1-4

CAS # 10326-28-0 DOT 6.1/III

18801	100 G
18802	500 G

CADMIUM SULFATE, ANHYDROUS, REAGENT (ACS) — ITEM 873

$CdSO_4$ F.W. 208.47

Assay 99.0% min.
Nitrate & Nitrite 0.003%
Copper 0.002%
Lead 0.003%
Potassium 0.02%
Zinc 0.05%
Chloride 0.001%
Loss on drying @ 150 C 1.0% max
Iron 0.001%
Calcium 0.01%
Sodium 0.05%
Insoluble 0.005%

CAS # 10124-36-4 DOT 6.1/III NFPA # 3-0-0

Please For Sizes

CADMIUM SULFATE, HYDRATED, 99.99% — ITEM A1401

$3CdSO_4 \bullet 8H_2O$ F.W. 769.52

Assay (Metals Basis) 99.99% min.

CAS # 7790-84-3 DOT 6.1/III NFPA # 3-0-0

18841 25 G

CADMIUM SULFATE, HYDRATED, REAGENT (ACS) — ITEM 1150

$3CdSO_4 \bullet 8H_2O$ F.W. 769.52

Assay 98.0-102.0%
Chloride 0.001%
Zinc 0.05%
Iron 0.001%
Calcium 0.005%
Sodium 0.02%
Insoluble 0.005%
Nitrate & Nitrite 0.003%
Copper 0.002%
Lead 0.003%
Potassium 0.01%
Appearance - white crystals

CAS # 7790-84-3 DOT 6.1/III NFPA # 3-0-0

18861 100 G
18862 500 G

CADMIUM SULFIDE, POWDER — ITEM 3681

CdS F.W. 144.46

CAS # 1306-23-6 DOT NR

Please For Sizes

CALCEIN — ITEM 222

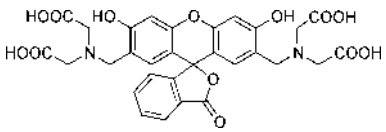
(Fluorescein-methylene-iminodiacetic Acid) Indicator for the determination of calcium by titration with EDTA. Suitable for fluorometric determination of calcium.

$C_{30}H_{26}N_2O_{13}$ F.W. 622.55

Suitability as calcium indicator with EDTA

CAS # 1461-15-0 DOT NR

19002 5 G
19004 25 G



CALCEIN MODIFIED — ITEM 261

Calcein + Thymolphthalein + Potassium Chloride. Determination of calcium in the presence of magnesium with EDTA. B.M. Tucker, Analyst, 82,285 (1957)

Suitability as indicator Pass Test

DOT NR

19023 100 G

CALCEIN MODIFIED II — ITEM 301

Calcein + Bromthymol Blue + Potassium Chloride. Determination of calcium in the presence of magnesium with EDTA.

Suitability as indicator Pass Test

DOT NR

19031 25 G
19033 100 G

CALCIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1717

Concentration 10,000 ± 100 ug/ml Matrix: <5% HNO3
NIST Traceable

DOT 8/III

22170 100 ML
22172 500 ML

Specific Gravity 1.030

CALCIUM, 1000 ppm ICP STANDARD SOLUTION — ITEM 1716

Concentration 1,000 ± 10 ug/ml Matrix: <5% HNO3
NIST Traceable

DOT 8/III

22160 100 ML
22162 500 ML

Specific Gravity 1.030

CALCIUM, 1000 ppm STANDARD SOLUTION — ITEM 744

AA, colorimetric or volumetric standard

Concentration 1,000 ± 10 ug/ml Matrix: <5% HCl
NIST Traceable

DOT NR

70070 100 ML
70072 500 ML

Specific Gravity 1.020

C

CALCIUM ACETATE, MONOHYDRATE, REAGENT (ACS) ITEM 874

$Ca(C_2H_3O_2)_2 \bullet H_2O$ F.W. 176.19

Assay 99.0%
Alkalinity-Pass test
Chloride 0.001%
Barium 0.01%
Iron 0.001%
Potassium 0.01%
Strontium 0.05%
Insoluble matter 0.005%
Titrable acid 0.035 meq/g
Sulfate 0.01%
Heavy metals 0.005%
Magnesium 0.05%
Sodium 0.02%

CAS # 5743-26-0 DOT NR NFPA # 0-0-0

19105	100 G
19101	500 G
19102	2.5 KG
19103	10 KG

CALCIUM BENZOATE, REAGENT ITEM 1694

$(C_6H_5CO_2)_2Ca$ F.W. 282.30

Assay (after drying) 98.0-102.0%
Loss on drying 8.0% max.
Sulfate 0.005%
Iron 0.001%
Insoluble 0.01%
Chloride 0.01%
Heavy Metals 0.001%
Acidity 0.3%

CAS # 2090-05-3 DOT NR

19097	100 G
19091	500 G
19092	2.5 KG
19093	10 KG
19094	50 KG

CALCIUM BROMIDE, ANHYDROUS ITEM 2934

$CaBr_2$ F.W. 199.89

Assay 98% min
Bromate 0.001%
Iodide 0.01%
Heavy metals (as Pb) 0.001%
Moisture 2% max.
Chloride 0.1%
Sulfate 0.02%
Iron 0.0005%

CAS # 7789-41-5 DOT NR

19161	100 G
19162	500 G

CALCIUM CARBONATE, CHELOMETRIC STANDARD (ACS) ITEM 337

Primary standard grade.

$CaCO_3$ F.W. 100.09

Assay 99.95-100.05%
Chloride 0.001%
Sulfate 0.005%
Barium 0.01%
Potassium 0.01%
Strontium 0.1%
Iron 0.002%
Insoluble in dilute HCl 0.01%
Fluoride 0.0015%
Ammonium 0.003%
Magnesium 0.01%
Sodium 0.01%
Heavy Metals (by ICP-OES) 0.001%

CAS # 471-34-1 DOT NR NFPA # 0-0-0

19201	100 G
19202	500 G
19203	2.5 KG

CALCIUM CARBONATE, 99.999% ITEM 5017

$CaCO_3$ F.W. 100.09

Assay (metals basis) 99.999% min.

CAS # 471-34-1 DOT NR NFPA # 0-0-0

87131	5 G
87132	25 G
87133	100 G

CALCIUM CARBONATE, REAGENT (ACS) ITEM 875

$CaCO_3$ F.W. 100.09

Assay (dried basis) 99.0% min.
Chloride 0.001%
Potassium 0.01%
Strontium 0.1%
Ammonium 0.003%
Heavy Metals (by ICP-OES) 0.001%
Magnesium 0.02%
Insoluble in dilute HCl 0.01%
Sodium 0.1%
Fluoride 0.0015%
Sulfate 0.01%
Barium 0.01%
Iron 0.003%

CAS # 471-34-1 DOT NR NFPA # 0-0-0

19210	100 G
19211	500 G
19212	2.5 KG
19213	10 KG
19214	50 KG

CALCIUM CHLORIDE, ANHYDROUS, REAGENT (ACS) ITEM 683

$CaCl_2$ F.W. 110.99

Assay 96.0% min
Titrable base 0.006 meq/g

CAS # 10043-52-4 DOT NR NFPA # 1-0-0

19301	500 G
19302	2.5 KG
19303	10 KG
19304	50 KG

CALCIUM CHLORIDE, ANHYDROUS, GRANULAR, 4-30 MESH ITEM 3621

Desiccant

$CaCl_2$ F.W. 110.99

Particle size -4 to +30 mesh 95%

CAS # 10043-52-4 DOT NR NFPA # 1-0-0

19271	100 G
19272	500 G
19273	2.5 KG

CALCIUM CHLORIDE, ANHYDROUS, TECHNICAL, POWDER — ITEM 3623

Particle size typically -20 mesh.

$CaCl_2$ F.W. 110.99

Assay 90.0% Water (by LOD) 10%

CAS # 10043-52-4 DOT NR NFPA # 1-0-0

19292 500 G
19293 2.5 KG

CALCIUM CHLORIDE, HYDRATED, 99.999% — ITEM 5016

Approx. 5-6 moles water

$CaCl_2 \bullet XH_2O$ F.W. 219.05

Assay (metals basis) 99.999% min. Calcium content 18.0-20.0%

CAS # 7774-34-7 DOT NR NFPA # 1-0-0

87121 5 G
87122 25 G

CALCIUM CHLORIDE, DIHYDRATE, BIO-REFINED™ — ITEM 1908

$CaCl_2 \bullet 2H_2O$ F.W. 147.02

Assay 99.5% min. pH (1 M in H2O) 5.0-8.0 @ 20 C
Insoluble matter 0.005% Sulfate 0.005%
Nitrogen compounds 0.002% Absorbance (1 M in H2O) @ 260 nm 0.011
Absorbance (1 M in H2O) @ 280 nm 0.010

As 0.1 ppm	Ba 5 ppm	Bi 5 ppm
Cd 5 ppm	Co 5 ppm	Cr 5 ppm
Cu 5 ppm	Fe 5 ppm	K 50 ppm
Li 5 ppm	Mg 50 ppm	Mn 5 ppm
Mo 5 ppm	Na 100 ppm	Ni 5 ppm
Pb 5 ppm	Sr 100 ppm	Zn 5 ppm

CAS # 10035-04-8 DOT NR NFPA # 1-0-0

19331 500 G

CALCIUM CHLORIDE, DIHYDRATE, REAGENT (ACS) — ITEM 876

$CaCl_2 \bullet 2H_2O$ F.W. 147.02

Assay 99.0-105.0% Insoluble matter 0.01%
pH of 5% solution 4.5-8.5 25C Oxidizing substances (as NO3) 0.003%
Sulfate 0.01% Ammonium 0.005%
Barium 0.005% Heavy Metals (by ICP-OES) 0.0005%
Iron 0.001% Magnesium 0.005%
Potassium 0.01% Sodium 0.02%
Strontium 0.1%

CAS # 10035-04-8 DOT NR NFPA # 1-0-0

19311 500 G
19312 2.5 KG
19313 10 KG
19314 50 KG

CALCIUM CHLORIDE, 1,000 ppm SOLUTION — ITEM 9835

1,000 ug/mL as calcium carbonate

$CaCl_2$

Concentration (as CaCO3) 1000 ± 10 ppm

CAS # 10043-52-4 DOT NR

19241 1 L

CALCIUM CHLORIDE, SOLUTION, 2.75% — ITEM 1148

Used in determination of Biochemical Oxygen Demand.

$CaCl_2$

Concentration 2.75 ± 0.05% (w/v)

CAS # 10043-52-4 DOT NR

19321 500 ML

CALCIUM CITRATE TETRAHYDRATE — ITEM 5269

Powder.

$Ca_3(C_6H_5O_7)_2 \bullet 4H_2O$ F.W. 570.50

Assay 97.5-100.5% Arsenic 3 ppm
Heavy metals (as Pb) 0.002% Loss on drying 10.0-13.3%
Insoluble matter (in dilute acid) 0.2%

CAS # 5785-44-4 DOT NR

14521 100 G
14522 500 G
14523 2 KG

CALCIUM EDTA

See Disodium Calcium Ethylenediaminetetraacetate

CALCIUM FLUORIDE — ITEM 877

CaF_2 F.W. 78.08

Assay 95% Chloride 0.01%
Sulfate 0.01% Heavy Metals (Pb) 0.005%
Iron 0.01%

CAS # 7789-75-5 DOT NR NFPA # 1-0-0

19372 100 G
19371 500 G
19373 2.5 KG
19374 10 KG

CALCIUM FLUORIDE, 99.9% — ITEM 1539

CaF_2 F.W. 78.08

Assay (metals basis) 99.9% min Particle size 1.1-2.0 microns

CAS # 7789-75-5 DOT NR NFPA # 1-0-0

19383 25 G
19381 100 G
19382 500 G

CALCIUM GLUCONATE, 98% — ITEM 3556

$[HOCH_2[CH(OH)]_4CO_2]_2Ca$ F.W. 430.38

Assay 98%

CAS # 299-28-5 DOT NR

19391 100 G
19392 1 KG

CALCIUM HYDRIDE, GREY CHUNKS — ITEM 3683

Efficient drying agent. ca. 95%

CaH_2 F.W. 42.10

Color - Grey Form - Small to large solid chunks

CAS # 7789-78-8 DOT 4.3/I NFPA # 3-3-2

19413 500 G

CALCIUM HYDROXIDE, REAGENT (ACS) — ITEM 878

$Ca(OH)_2$ F.W. 74.09

Assay 95.0% min. as Ca(OH)2
Sulfur compounds (SO4) 0.1%
Iron 0.05%
Chloride 0.03%
Potassium 0.05%
Strontium 0.05%
CaCO3 3.0% max
Heavy Metals (Pb) 0.003%
Magnesium 0.5%
Insoluble in HCl 0.03%
Sodium 0.05%

CAS # 1305-62-0 DOT 8/III NFPA # 2-0-0

19401 500 G
19402 2.5 KG
19403 10 KG

CALCIUM HYDROXIDE, PURIFIED — ITEM 5270

$Ca(OH)_2$ F.W. 74.09

Assay 95.0-100.5%
Lead 2 ppm
Insoluble in HCl 0.5%
Arsenic 3 ppm

CAS # 1305-62-0 DOT 8/III NFPA # 1-0-1

14531 100 G
14532 500 G
14533 2 KG

CALCIUM HYPOCHLORITE, TECHNICAL — ITEM 879

$Ca(OCl)_2$ F.W. 142.99

Available chlorine 62-70%

CAS # 7778-54-3 DOT 5.1/II NFPA # 3-0-1

19451 500 G
19452 2.5 KG
19453 10 KG

CALCIUM HYPOPHOSPHITE, TECHNICAL — ITEM A1488

$Ca(H_2PO_2)_2$ F.W. 170.06

Identity Pass test

CAS # 7789-79-9 DOT NR

19461 100 G

CALCIUM IODATE, REAGENT — ITEM 521

$Ca(IO_3)_2$ F.W. 389.90

Insoluble 0.02%
Sulfate 0.005%
Iron 0.01%
Other Halogens (Cl) 0.01%
Heavy Metals (Pb) 0.0005%

CAS # 7789-80-2 DOT 5.1/II

19501 100 G
19502 500 G

CALCIUM IODIDE, 99%, LUMPS — ITEM A1494

$CaI_2 \bullet XH_2O$

Assay (Metals Basis) 99% min.

CAS # 71626-98-7 DOT NR

19521 100 G

CALCIUM MOLYBDATE, 99.9% — ITEM A1497

$CaMoO_4$ F.W. 200.02

CAS # 7789-82-4 DOT NR

19571 25 G

CALCIUM NITRATE, TETRAHYDRATE, 99.999% — ITEM A1506

$Ca(NO_3)_2 \bullet 4H_2O$ F.W. 236.16

Assay (metals basis) 99.999% min. Calcium content 16.0-18.5%

CAS # 13477-34-4 DOT 5.1/III NFPA # 1-0-3

19612 5 G
19611 25 G

CALCIUM NITRATE, TETRAHYDRATE, BIO-REFINED™ ITEM 1909

$Ca(NO_3)_2 \bullet 4H_2O$ F.W. 236.16

Assay 99.0% min.
Insoluble matter 0.005%
Sulfate 0.005%
pH of 5% solution 5.0-7.0 @25C
Chloride 0.005%
Nitrite 0.001%
Absorbance cut off @ 332nm (1M in H2O)

Ba 10 ppm	Cd 5 ppm	Co 5 ppm
Cr 5 ppm	Cu 2 ppm	Fe 5 ppm
K 50 ppm	Mg 500 ppm	Mn 5 ppm
Na 50 ppm	Ni 5 ppm	Pb 5 ppm
Sr 100 ppm	Zn 5 ppm	

CAS # 13477-34-4 DOT 5.1/III NFPA # 1-0-3

19592	100 G
19591	500 G

CALCIUM NITRATE, TETRAHYDRATE, REAGENT (ACS) ITEM 779

$Ca(NO_3)_2 \bullet 4H_2O$ F.W. 236.16

Assay 99.0-103.0%
Insoluble matter 0.005%
Sulfate 0.002%
Heavy Metals (by ICP-OES) 0.0005%
Magnesium 0.05%
Potassium 0.005%
Strontium 0.05%
pH of 5% solution 5.0-7.0 @25C
Chloride 0.005%
Barium 0.005%
Iron 0.0005%
Nitrite 0.001%
Sodium 0.01%

CAS # 13477-34-4 DOT 5.1/III NFPA # 1-0-3

19601	500 G
19602	2.5 KG
19603	10 KG
19604	50 KG
19605	500 KG
19606	1000 KG

CALCIUM NITRIDE, 99% ITEM 1342

-200 Mesh

Ca_3N_2 F.W. 148.25

Assay (metals basis) 99%

CAS # 12013-82-0 DOT 4.3/II

19631	50 G

CALCIUM OXIDE, 99.999% ITEM 5090

Packed under argon

CaO F.W. 56.08

Assay (metals basis) 99.999% min.

CAS # 1305-78-8 DOT NR

87861	5 G
87862	25 G

CALCIUM OXIDE, 99.95% ITEM 1540

CaO F.W. 56.08

Assay (metals basis) 99.95%

CAS # 1305-78-8 DOT NR NFPA # 1-0-1

19673	25 G
19671	100 G
19672	500 G

CALCIUM OXIDE, 99.9% ITEM A1521

CaO F.W. 56.08

CAS # 1305-78-8 DOT NR NFPA # 1-0-1

19661	100 G

CALCIUM OXIDE, REAGENT ITEM 880

CaO F.W. 56.08

Insoluble in CH3COOH and NH4OH ppt 1.5%
Chloride 0.005%
Sulfate 0.1%
Iron 0.1%
Loss on ignition 5.0%
Nitrate 0.05%
Heavy metals (as Pb) 0.01%

CAS # 1305-78-8 DOT NR NFPA # 1-0-1

19651	500 G
19652	2.5 KG
19653	10 KG

CALCIUM PERCHLORATE, HYDRATED, REAGENT ITEM 12

$Ca(ClO_4)_2 \bullet 4H_2O$ F.W. 311.06

Calcium (by EDTA titration) 12.2-13.5%
Chloride 0.003%
Iron 0.0005%
pH of 5% solution 5.0-8.0
Insoluble 0.005%
Sulfate 0.001%
Heavy Metals (as Pb) 0.0005%

CAS # 15627-86-8 DOT 5.1/II

19700	100 G
19701	500 G
19702	2.5 KG
19703	10 KG
19704	50 KG
19705	500 KG
19706	1,000 KG

CALCIUM PERIODATE, REAGENT ITEM 522

$Ca_3(H_2IO_6)_2 \bullet 4H_2O$ F.W. 640.11

Insoluble 0.01%
Sulfate 0.01%
Other Halogens (Cl) 0.01%
Iron 0.001%

CAS # 77353-51-6 DOT 5.1/II

19801	100 G
19802	500 G

C

CALCIUM PHOSPHATE, DIBASIC, 99.95% ITEM 1548

Typical particle size ca 9-11 um.

$CaHPO_4$ F.W. 136.06

Assay (metals basis) 99.95%
Insoluble in HCl 0.01%
Particle size -325 mesh 95% min.

CAS # 7757-93-9 DOT NR NFPA # 0-0-0

19811 100 G
19812 500 G

CALCIUM PHOSPHATE, DIBASIC, REAGENT ITEM 881

$CaHPO_4$ F.W. 136.06

Chloride 0.002%
Sulfate 0.04%
Heavy metals 0.003%
Iron 0.005%

CAS # 7757-93-9 DOT NR NFPA # 0-0-0

19823 100 G
19821 500 G
19822 2.5 KG
19824 10 KG
19825 50 KG

CALCIUM PHOSPHATE, MONOBASIC, REAGENT ITEM 882

$CaH_4(PO_4)_2 \cdot H_2O$ F.W. 252.07

Insoluble in HCl 0.01%
Nitrate 0.005%
Heavy Metals (Pb) 0.002%
Chloride 0.002%
Sulfate 0.01%
Iron 0.002%

CAS # 10031-30-8 DOT NR NFPA # 0-0-0

19833 100 G
19831 500 G
19832 2.5 KG

CALCIUM PHOSPHATE, HYDROXIDE, REAGENT ITEM A1539

Hydroxyapatite

$Ca_{10}(OH)_2(PO_4)_6$ F.W. 1004.62

Insoluble in dilute HCl 0.07%
Nitrogen compounds (as N) 0.05%
Heavy metals (as Pb) 0.002%
Chloride 0.05%
Sulfate 0.3%
Iron 0.03%

CAS # 1306-06-5 DOT NR NFPA # 0-0-0

19731 100 G
19732 500 G

CALCIUM PHOSPHATE, HYDROXIDE, PURIFIED ITEM 5267

Hydroxyapatite

$Ca_{10}(OH)_2(PO_4)_6$ F.W. 1004.62

Calcium content 34.0-40.0%
Water Soluble Substances 0.5% max
Chloride 0.14% max
Loss on Ignition 8.0% max
Insoluble Matter in Acid 0.2% max
Heavy Metals(as Pb) 0.003% max

CAS # 1306-06-5 DOT NR NFPA # 0-0-0

14541 100 G
14542 500 G
14543 2 KG

CALCIUM PHOSPHATE, TRIBASIC, BETA PHASE

See Tricalcium Phosphate

CALCIUM PROPIONATE ITEM 3743

$Ca(C_2H_5CO_2)_2$ F.W. 186.23

Assay 95%

CAS # 4075-81-4 DOT NR

19551 500 G
19552 2.5 KG

CALCIUM SILICATE, 99% ITEM 1345

-200 Mesh

$CaSiO_3$ F.W. 116.16

CAS # 1344-95-2 DOT NR

19761 50 G

CALCIUM SILICIDE, 99.5% ITEM 1346

CaSi F.W. 68.17

CAS # 12013-55-7 DOT 4.3/III

19721 50 G

CALCIUM STANNATE, 99% ITEM 1347

-325 Mesh

$CaSnO_3$ F.W. 206.77

Assay (metals basis) 99% min

CAS # 12013-46-6 DOT NR

19681 100 G

CALCIUM SUCCINATE, MONOHYDRATE ITEM 5271

Powder

$CaC_4H_4O_4 \bullet H_2O$ F.W. 174.16

Assay (as Ca) 22.0-25.0% Loss on drying at 160 C 9.0-13.3%

CAS # 140-99-8 DOT NR

14551	100 G
14552	500 G
14553	2 KG

CALCIUM SULFATE, ANHYDROUS, REAGENT ITEM 883

$CaSO_4$ F.W. 136.14

Insoluble in HCl 0.25%
Nitrogen compounds 0.005%
Iron 0.10%
10-20 mesh
Chloride 0.01%
Heavy metals 0.005%
Magnesium and alkali metals 0.5%

CAS # 7778-18-9 DOT NR NFPA # 1-0-0

19840	100 G
19841	500 G
19842	2.5 KG

CALCIUM SULFATE, ANHYDROUS INDICATING ITEM 1556

Desiccant with color indicator. Nominally 10-20 mesh

$CaSO_4$ F.W. 136.14

Suitability as desiccant-Pass test Particle size -10 +20

CAS # 7778-18-9 DOT NR

19791	500 G

CALCIUM SULFATE, DIHYDRATE, REAGENT (ACS) ITEM 780

$CaSO_4 \bullet 2H_2O$ F.W. 172.17

Assay 98.0-102.0%
Chloride 0.005%
Carbonate-pass test
Iron 0.001%
Potassium 0.005%
Strontium 0.05%
Insoluble in dilute HCl 0.02%
Nitrate-pass test
Heavy Metals (Pb) 0.002%
Magnesium 0.02%
Sodium 0.02%

CAS # 10101-41-4 DOT NR NFPA # 1-0-0

19850	100 G
19851	500 G
19852	2.5 KG
19853	10 KG

CALCIUM SULFATE, HEMIHYDRATE ITEM 3656

$CaSO_4 \bullet 1/2H_2O$ F.W. 145.15

Assay 98%

CAS # 10034-76-1 DOT NR NFPA # 1-0-0

19561	500 G
19562	2.5 KG

CALCIUM TRIFLATE

See Calcium Trifluoromethanesulfonate

CALCIUM TRIFLUOROMETHANESULFONATE ITEM 3522

$Ca(CF_3SO_3)_2$ F.W. 338.22

Assay 98% min.

CAS # 55120-75-7 DOT 8/II

19641	5 G
19642	25 G

CALCIUM VANADATE, 99.9% ITEM 1352

-325 Mesh

$Ca(VO_3)_2$ F.W. 237.96

Assay (metals basis) 99.9% min.

CAS # 12135-52-3 DOT 6.1/II

19141	100 G

CALCON

See Eriochrome Blue Black R

CALGON CPG

See Carbon, Activated, Calgon CPG

CALIBRATION STANDARDS

See In-Spec UV Standard

CALMAGITE, REAGENT (ACS) ITEM 278

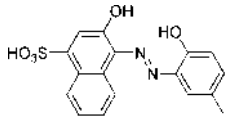
1-(1-Hydroxy-4-methyl-2-phenylazo)-2-naphthol-4-sulfonic Acid. Indicator for the titration of Ca plus Mg with EDTA. Stable substitute for Eriochrome Black T having same color change & sharper end pt.

$(OH)(CH_3)C_6H_3N{=}NC_{10}H_5(OH)(SO_3H)$ F.W. 358.38

Suitability as indicator - Pass Test Clarity of solution - Pass Test

CAS # 3147-14-6 DOT NR NFPA # 2-1-0

19901	10 G
19902	25 G
19904	100 G



C

CALMAGITE SOLUTION, 0.1% AQUEOUS ITEM 2045

1-(1-Hydroxy-4-methyl-2-phenylazo)-2-naphthol-4-sulfonic Acid

F.W. 358.38

Suitability as an indicator for Mg Pass Test

CAS # 3147-14-6 DOT NR

24441	500 ML

Specific Gravity 1.000

CAL RED

See 2-Hydroxy-1-(2-Hydroxy-4-Sulfo-1-Naphthylazo-3-Naphthoic Acid)

C

CARBOLIC ACID

See Phenol

CARBON, ACTIVATED, DARCO® G-60, POWDER ITEM 717

Typical particle range >90% 5.5 - 125 um.

C F.W. 12.01

Moisture (as packed) 12% max. Water soluble matter 0.5% max.
Iron 200 ppm max. Methylene blue adsorption 15 g/100 g min.

CAS # 7440-44-0 DOT NR NFPA # 1-2-0

32602	100 G
32601	500 G
32603	2.5 KG
32604	10 KG

CARBON, ACTIVATED, DARCO® ACID WASHED, 4-12 MESH ITEM 2634

C F.W. 12.01

CAS # 7440-44-0 DOT NR NFPA # 1-1-0

32621	100 G
32622	500 G
32623	2.5 KG
32624	10 KG

CARBON, ACTIVATED, DARCO® ACID WASHED, 12-20 MESH ITEM 2635

C F.W. 12.01

CAS # 7440-44-0 DOT NR NFPA # 1-1-0

32631	100 G
32632	500 G
32633	2.5 KG
32634	10 KG

CARBON, ACTIVATED, CALGON CPG, 12 X 40 MESH ITEM 7171

C F.W. 12.01

CAS # 7440-44-0 DOT NR

32611	500 G
32612	2.5 KG

CARBON, ACTIVATED, DARCO® ACID WASHED, 20-40 MESH ITEM 2636

C F.W. 12.01

CAS # 7440-44-0 DOT NR NFPA # 1-1-0

32641	100 G
32642	500 G
32643	2.5 KG
32644	10 KG

CARBON, ACTIVATED, DARCO® KB, WET POWDER ITEM 2637

Surface area 1500 m2/g; pore volume 1.5 cc/g

C F.W. 12.01

Paricle size -100 mesh 98% min. Water 30% max.

CAS # 7440-44-0 DOT 4.2/III

32651	100 G
32652	500 G
32653	2.5 KG

CARBON, ACTIVATED, NORIT® RO 0.8, 0.8 mm EXTRUSION ITEM 2640

C F.W. 12.01

CAS # 7440-44-0 DOT NR

32671	500 G
32672	2.5 KG

CARBON, 10,000 ppm ICP STANDARD SOLUTION ITEM 1719

Concentration 10,000 ± 100 ug/ml Matrix: Acetic acid in water
NIST Traceable

DOT NR

22190	100 ML
22192	500 ML

Specific Gravity 1.000

CARBON, 1000 ppm ICP STANDARD SOLUTION — ITEM 1718

Concentration 1,000 ± 10 ug/ml
NIST Traceable

Matrix: Acetic acid in water

DOT NR

22180 100 ML
22182 500 ML

Specific Gravity 0.999

CARBON DISULFIDE, LOW BENZENE, REAGENT (ACS) — ITEM 1859

CS_2 F.W. 76.13

Assay (GLC) 99.9% min
Residue after evaporation 0.002%
Sulfur dioxide - Pass Test
Benzene 0.0001% (1 ppm)

Color (APHA) 10 max
Hydrogen sulfide - Pass Test
Water 0.05%

CAS # 75-15-0 DOT 3/6.1/I NFPA # 3-3-0

19941 500 ML
19942 6 X 500 ML

Specific Gravity 1.261

CARBON DISULFIDE, REAGENT (ACS) — ITEM 884

CS_2 F.W. 76.13

Assay 99.9% min
Residue after evaporation 0.002%
Sulfur dioxide - Pass Test

Color (APHA) 10 max
Hydrogen sulfide - Pass Test
Water 0.05%

CAS # 75-15-0 DOT 3/6.1/I NFPA # 3-3-0

19931 500 ML
19932 6 X 500 ML

Specific Gravity 1.261

CARBORUNDUM

See Silicon Carbide, 98.8%

CARBORUNDUM BOILING CHIPS, 4 MESH — ITEM 198

Mesh size 4 mesh

CAS # 409-21-2 DOT NR

78201 1 OZ

CARBORUNDUM BOILING CHIPS, 8 MESH — ITEM 8198

Mesh size 8 mesh

CAS # 409-21-2 DOT NR

78211 1 OZ

CARBORUNDUM BOILING CHIPS, 14 MESH — ITEM 7198

Mesh size 14 mesh

CAS # 409-21-2 DOT NR

78221 1 OZ

CARBORUNDUM BOILING CHIPS, 20 MESH — ITEM 6198

Mesh size 20 mesh

CAS # 409-21-2 DOT NR

78231 1 OZ

2-CARBOXY-2'-HYDROXY-5'-SULFOFORMAZYLBENZENE

See Zincon

CATECHOL, 99% — ITEM 2727

1,2-Dihydroxybenzene

$C_6H_4(OH)_2$ F.W. 110.11

Assay (GC-FID), 98.5% min

CAS # 120-80-9 DOT 6.1/III NFPA # 2-1-0

19951 100 G
19952 500 G
19953 2.5 KG

CAUSTIC POTASH

See Potassium Hydroxide

CAUSTIC SODA

See Sodium Hydroxide

CDTA

See 1,2-Cyclohexanediaminetetraacetic Acid

CELATOM

See Filter Aid, Celatom FW-14

CELLULOSE, AVICEL®, MICROCRYSTALLINE — ITEM 2896

Adsorbent for low pressure column chromatography

Particle size median 45-55 um
Incandescent Residue 0.1%
pH 5.5 - 7
Water content 5%

DOT NR

89030	100 G
89031	500 G
89032	1 KG
89033	5 KG

CELLULOSE, MN GRADE 100, NATIVE, FIBROUS, PURIFIED — ITEM 2893

Adsorbent for low pressure column chromatography

pH (5% slurry) 5-7
Water 10%

DOT NR

89001	1 KG
89002	5 KG
89003	25 KG

CELLULOSE, MN GRADE 301, NATIVE, FIBROUS — ITEM 2890

Adsorbent for low pressure column chromatography

DOT NR

88971	500 G
88972	1 KG
88973	5 KG

CELLULOSE, MN GRADE 301HR, ACID WASHED, DE-FATTED — ITEM 2892

Adsorbent for low pressure column chromatography

DOT NR

88991	500 G
88992	1 KG
88993	5 KG

CELLULOSE, MN GRADE 301/I, NATIVE, FIBROUS, WITH INDICATOR (UV 254) — ITEM 2891

Adsorbent for low pressure column chromatography

DOT NR

88981	500 G
88982	1 KG
88983	5 KG

CELLULOSE, MN GRADE 2100, HIGH PURITY GRADE — ITEM 2894

Adsorbent for low pressure column chromatography

DOT NR

89011	1 KG
89012	5 KG
89013	25 KG

CELLULOSE, MN GR 2100FF, HIGH PURITY, DE-FATTED — ITEM 2895

Adsorbent for low pressure column chromatography

DOT NR

89021	500 G
89022	1 KG

CERIC ACID SULFATE, STANDARD SOLUTION ASTM D2193-97

See Ceric Sulfate, Solution, 0.002 N

CERIC AMMONIUM NITRATE, CERTIFIED — ITEM 15

Ammonium Hexanitrato Cerate

$(NH_4)_2Ce(NO_3)_6$ F.W. 548.23

Assay 99.97-100.03%
Chloride 0.01%
Iron 0.005%
Insoluble 0.01%
Phosphate 0.02%

CAS # 16774-21-3 DOT 5.1/III NFPA # 1-0-3

20031	100 G
20032	500 G
20033	2.5 KG

CERIC AMMONIUM NITRATE, PRIMARY STANDARD — ITEM 14

Ammonium Hexanitrato Cerate

$(NH_4)_2Ce(NO_3)_6$ F.W. 548.23

Assay 99.9-100.1%
Chloride 0.01%
Iron 0.005%
Insoluble 0.01%
Phosphate 0.02%

CAS # 16774-21-3 DOT 5.1/III NFPA # 1-0-3

20024	100 G
20021	500 G
20022	2.5 KG

CERIC AMMONIUM NITRATE, SUPERIOR REAGENT (ACS) — ITEM 2909

Ammonium Hexanitrato Cerate

$(NH_4)_2Ce(NO_3)_6$ F.W. 548.23

Assay 98.5% min.
Appearance - Yellow-orange crystals
Phosphate 0.02%
Insoluble in dilute sulfuric acid 0.05%
Chloride 0.01%
LOD - report

Ca 20 ppm	Cd 3 ppm	Co 3 ppm
Cu 3 ppm	Fe 20 ppm	Pb 20 ppm
Mg 1 ppm	Mn 3 ppm	Ni 3 ppm
K 20 ppm	Na 30 ppm	Zn 3 ppm

CAS # 16774-21-3 DOT 5.1/III NFPA # 1-0-3

20081	100 G
20082	500 G
20083	2.5 KG

CERIC AMMONIUM NITRATE, REAGENT (ACS) — ITEM 13

Ammonium Hexanitrato Cerate

$(NH_4)_2Ce(NO_3)_6$ F.W. 548.23

Assay 98.5% min
Chloride 0.01%
Iron 0.005%
Insoluble in dilute sulfuric acid 0.05%
Phosphate 0.02%

CAS # 16774-21-3 DOT 5.1/III NFPA # 1-0-3

20013	100 G
20001	500 G
20002	2.5 KG
20006	10 KG
20007	50 KG
20010	100 KG
20011	1000 KG
20012	5000 KG

CERIC AMMONIUM NITRATE, ELECTRONICS GRADE — ITEM 7683

$(NH_4)_2Ce(NO_3)_6$ F.W. 548.23

Assay(Redox Titration) 98.0% min.
CeO2/REO 99.9% min.
Chloride 0.01%
Copper 0.001%
TREO content 30.0% min.
Insoluble matter 0.05%
Iron 0.002%
Sodium 0.001%

CAS # 16774-21-3 DOT 5.1/III NFPA # 1-0-3

20072	25 KG
20071	100 KG
20073	1,000 KG
20074	5,000 KG

CERIC AMMONIUM NITRATE, COMMERCIAL — ITEM 768

Ammonium Hexanitrato Cerate

$(NH_4)_2Ce(NO_3)_6$ F.W. 548.23

Assay 95.0% min
CeO2/REO 99.5% min.
TREO content 29.5% min.

CAS # 16774-21-3 DOT 5.1/III NFPA # 1-0-3

20041	100 KG
20042	1000 KG
20045	5000 KG

CERIC AMMONIUM NITRATE ETCHANTS

See GFS Etchant Formula 10

CERIC AMMONIUM SULFATE, DIHYDRATE, REAGENT (ACS) — ITEM 16

Ammonium Tetrasulfato Cerate

$(NH_4)_4Ce(SO_4)_4 \bullet 2H_2O$ F.W. 632.58

Assay 94 - 106%
Iron 0.01%
Insoluble in dilute H2SO4 0.05%
Phosphate 0.03%

CAS # 10378-47-9 DOT NR NFPA # 1-0-1

20107	100 G
20101	500 G
20102	2.5 KG
20103	10 KG
20104	50 KG

CERIC AMMONIUM SULFATE, SOLUTION, 1.0 N — ITEM 5646

1.0 mol/L. Standard solution for cerate oxidimetry

Concentration 1.0000 ± 0.0005 N

20881	2.5 L
20882	4 X 2.5 L

CERIC AMMONIUM SULFATE, SOLUTION, 0.5 N — ITEM 5645

0.5 mol/L. Standard solution for cerate oxidimetry

Concentration 0.5000 ± 0.0005 N

20871	2.5 L
20872	4 X 2.5 L

CERIC AMMONIUM SULFATE, SOLUTION, 0.2 N — ITEM 5644

0.2 mol/L. Standard solution for cerate oxidimetry

Concentration 0.2000 ± 0.0005 N

20861	2.5 L
20862	4 X 2.5 L

CERIC AMMONIUM SULFATE, SOLUTION, 0.1 N — ITEM 5643

0.1 mol/L. Standard solution for cerate oxidimetry

Concentration 0.1000 ± 0.0005 N

20841	2.5 L
20842	4 X 2.5 L

CERIC BISULFATE

See Ceric Sulfate

CERIC HYDROXIDE, REAGENT — ITEM 17

100 Mesh

$Ce(OH)_4$ F.W. 208.16

REO Content Report
Iron 0.1%
Insoluble in H2SO4 0.25%
Phosphate 0.1%

CAS # 12014-56-1 DOT NR

20201	100 G
20202	500 G
20203	2.5 KG

CERIC NITRATE, SOLUTION, 1.5 N — ITEM 1575

$H_2Ce(NO_3)_6$ F.W. 514.18

Normality 1.45-1.55N
Iron 50 ppm max.
Specific gravity 1.5-1.6 g/ml

CAS # 13093-17-9 DOT 8/5.1/II

20323	500 ML
20324	4 L
20321	206 L

Specific Gravity 1.574

CERIC NITRATE, SOLUTION, 1.0N — ITEM 1574

$H_2Ce(NO_3)_6$ F.W. 514.18

Normality 0.95-1.05 N
Iron 50 ppm max

CAS # 13093-17-9 DOT 8/II

20313	500 ML
20314	4 L
20311	206 L

Specific Gravity 1.500

CERIC OXIDE, 99.99% — ITEM 2204

CeO_2 F.W. 172.13

Assay 99.99% min. (metals basis)

CAS # 1306-38-3 DOT NR NFPA # 1-0-0

26031	25 G
26032	100 G

CERIC OXIDE, 99.9% — ITEM 354

CeO_2 F.W. 172.13

CAS # 1306-38-3 DOT NR NFPA # 1-0-0

20432	100 G
20431	500 G

CERIC OXIDE, 99% — ITEM 3541

CeO_2 F.W. 172.13

Assay (CeO2/REO) 99.0% min.
Other rare earths 1.0% max.

CAS # 1306-38-3 DOT NR NFPA # 1-0-0

20436	500 G

CERIC OXIDE, REAGENT — ITEM 21

CeO_2 F.W. 172.13

Assay 95% min.
Sulfate 0.01%
Chloride 0.01%
Iron 0.01%

CAS # 1306-38-3 DOT NR NFPA # 1-0-0

20421	500 G
20422	2.5 KG

CERIC OXIDE, PURIFIED — ITEM 20

Reagent for cerate oxidimetry.

CeO_2 F.W. 172.13

CAS # 1306-38-3 DOT NR NFPA # 1-0-0

20401	500 G
20402	2.5 KG

CERIC OXIDE, NANO-DISPERSION — ITEM 3725

Approximately 4% (w/w) dispersion in water. Particle size range typically <50 nm.

CeO_2 F.W. 172.13

pH (as is) 7-9
Particle size - estimated
Density ca. 1.03 g/ml

CAS # 1306-38-3 DOT NR NFPA # 0-0-0

10611	50 ML
10612	250 ML

Specific Gravity 1.000

CERIC SULFATE, TETRAHYDRATE — ITEM 2258

$Ce(SO_4)_2 \bullet 4H_2O$ F.W. 404.33

Assay 85% min.
Insoluble 0.1%

CAS # 10294-42-5 DOT NR

20653	100 G
20651	500 G
20652	2.5 KG

CERIC SULFATE, 99.99% — ITEM 2206

(Tetrasulfato-Ceric Acid)

$H_4Ce(SO_4)_4$ F.W. 528.43

CAS # 17106-39-7 DOT NR

26051	25 G	**$101.20**

CERIC SULFATE, REAGENT — ITEM 24

(Tetrasulfato-Ceric Acid)

$H_4Ce(SO_4)_4$ F.W. 528.43

Assay 85.0 - 115.0%
Iron 0.1%
Insoluble in dil.H2SO4 0.1%
Phosphate 0.1%

CAS # 17106-39-7 DOT NR NFPA # 1-0-1

20708	100 G
20701	500 G
20702	2.5 KG
20703	10 KG
20704	50 KG

CERIC SULFATE, SOLUTION, 0.5N — ITEM 25

Standard solution for cerate oxidimetry

$H_4Ce(SO_4)_4$

Normality 0.45 - 0.50 N

CAS # 17106-39-7 DOT 8/II NFPA # 2-0-1

20722	2.5 L
20723	4 L
20725	189 L

Specific Gravity 1.286

CERIC SULFATE SOLUTION, 0.4 N — ITEM 1983

$H_4Ce(SO_4)_4$

Normality 0.4 ± 0.01

CAS # 17106-39-7 DOT 8/II NFPA # 2-0-1

20771	4 L
20773	20 L
20775	189 L

Specific Gravity 1.220

CERIC SULFATE, SOLUTION, 0.2500N — ITEM 716

$H_4Ce(SO_4)_4$

Normality 0.2500 ± 0.0005 N

CAS # 17106-39-7 DOT 8/II NFPA # 2-0-1

20742	4 L
20745	4 X 4 L
20744	20 L

Specific Gravity 1.162

CERIC SULFATE, SOLUTION, 0.1 N — ITEM 26

Standard solution for cerate oxidimetry

$H_4Ce(SO_4)_4$

Normality 0.1000 - 0.1100 N

CAS # 17106-39-7 DOT 8/II NFPA # 2-0-1

20761	2.5 L
20762	4 L
20765	4 X 4 L
20763	20 L
20764	189 L

Specific Gravity 1.132

CERIC SULFATE, SOLUTION, 0.0500N — ITEM 519

$H_4Ce(SO_4)_4$

Normality 0.0500 ± 0.0001 N

CAS # 17106-39-7 DOT 8/II NFPA # 2-0-1

20781	2.5 L
20782	4 L

Specific Gravity 1.000

CERIC SULFATE, SOLUTION, 0.0179N — ITEM 1284

$H_4Ce(SO_4)_4$

Normality 0.0179 ± 0.0001 N

CAS # 17106-39-7 DOT 8/II NFPA # 2-0-1

20792	4 L

Specific Gravity 1.000

CERIC SULFATE, SOLUTION, 0.002 N — ITEM 5369

ASTM 2193-97. "Ceric Acid Sulfate, Standard Solution (0.002 N)"

$H_4Ce(SO_4)_4$

Concentration 0.0020 ± 0.0005 N

CAS # 17106-39-7 DOT 8/III

15361	2.5 L
15362	4 L

CERIC TITANATE, 99.9% — ITEM 1355

$CeO_2 + TiO_2$

CAS # 52014-82-1 DOT NR NFPA # 2-0-0

20911	100 G

C

CERIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1721

Concentration 10,000 ± 100 ug/ml Matrix: <5% HNO3
NIST Traceable

DOT 8/III NFPA # 2-0-1

22210	100 ML
22212	500 ML

Specific Gravity 1.030

CERIUM, 1000 ppm ICP STANDARD SOLUTION — ITEM 1720

Concentration 1,000 ± 10 ug/ml Matrix: <5% HNO3
NIST Traceable

DOT 8/III NFPA # 2-0-1

22200	100 ML
22202	500 ML

Specific Gravity 1.030

CERIUM, 1000 ppm STANDARD SOLUTION — ITEM 745

AA or colorimetric standard

Concentration
1,000 ± 10 ug/ml Matrix: Ceric ammonium nitrate in <5% HNO3
NIST Traceable

DOT NR NFPA # 1-0-0

70080	100 ML
70082	500 ML

Specific Gravity 1.030

CERIUM TRIFLATE

See Cerous Trifluoromethanesulfonate, Hydrated

CEROUS ACETATE, 99.99% — ITEM 2201

$Ce(C_2H_3O_2)_3 \bullet 1\text{-}1/2H_2O$ F.W. 344.28

Assay (metals basis) 99.99% Cerium content (EDTA Titration) 38.7-42.5%

CAS # 17829-82-2 DOT NR

26001	25 G

CEROUS ACETATE, 99.9% — ITEM A1620

$Ce(C_2H_3O_2)_3 \bullet 1\text{-}1/2H_2O$ F.W. 344.28

Assay (metals basis) 99.9% min Cerium content (EDTA Titration) 38.7-42.5%

CAS # 17829-82-2 DOT NR

20952	100 G
20951	500 G
20953	2.5 KG
20954	10 KG

CEROUS ACETYLACETONATE, HYDRATED — ITEM 3726

Not on the TSCA inventory. For R&D use only.

$Ce(C_5H_7O_2)_3 \bullet XH_2O$ F.W. 437.45

Cerium content (by EDTA titration) Water content

CAS # 15653-01-7 DOT NR

10621	50 G
10622	250 G

CEROUS AMMONIUM NITRATE, HYDRATED, REAGENT — ITEM 27

$(NH_4)_2Ce(NO_3)_5 \bullet 4H_2O$ F.W. 558.29

Assay 98% min. Insoluble 0.01%
Chloride 0.01% Sulfate 0.005%
Iron 0.002%

CAS # 13083-04-0 DOT 5.1/III

21003	100 G
21001	500 G
21002	2.5 KG

CEROUS CARBONATE, 99.99% — ITEM 3727

$Ce_2(CO_3)_3 \bullet 5H_2O$ F.W. 550.35

Assay (metals basis) 99.99% Assay (by EDTA titration) 95%

CAS # 537-01-9 DOT NR

10631	10 G
10632	50 G
10633	250 G

CEROUS CARBONATE, 99.7% — ITEM 2253

$Ce_2(CO_3)_3 \bullet 5H_2O$ F.W. 550.35

Assay 99.7% min.(metals basis)

CAS # 537-01-9 DOT NR

21061	100 G
21062	500 G

CEROUS CHLORIDE, ANHYDROUS — ITEM 2902

White to green blue powder

$CeCl_3$ F.W. 246.47

Assay 98.0% min. (as RECl by EDTA titration) Insoluble matter 0.10%
Sulfate 0.01% Iron 0.002%
Loss on drying at 235 C 1.5% max.

CAS # 7790-86-5 DOT NR

21133	25 G
21134	100 G
21135	500 G
21138	100 KG
21139	500 KG
21140	1000 KG

CEROUS CHLORIDE, HYDRATED, 99.99% ITEM 2202

$CeCl_3 \bullet 7H_2O$ F.W. 372.61

Assay (Metals Basis) 99.99%

CAS # 18618-55-8 DOT NR

26011 25 G

CEROUS CHLORIDE, HYDRATED, 99.9% ITEM A1635

$CeCl_3 \bullet 7H_2O$ F.W. 372.61

CAS # 18618-55-8 DOT NR

21111 100 G
21112 500 G

CEROUS CHLORIDE, HEPTAHYDRATE, REAGENT ITEM 29

$CeCl_3 \bullet 7H_2O$ F.W. 372.61

Assay 99% min. Insoluble 0.10%
Sulfate 0.01% Iron 0.002%

CAS # 18618-55-8 DOT NR

21105 100 G
21101 500 G
21102 2.5 KG
21103 10 KG
21104 50 KG
21106 500 KG
21107 1000 KG

CEROUS FLUORIDE, 99% ITEM 2351

CeF_3 F.W. 197.11

Assay (metals basis) 99% min.

CAS # 7758-88-5 DOT NR

21161 25 G
21162 100 G
21163 500 G

CEROUS NITRATE, HYDRATED, 99.999% ITEM 5091

Cerium (III) Nitrate, Hexahydrate

$Ce(NO_3)_3 \bullet 6H_2O$ F.W. 434.25

Assay (metals basis) 99.999% min.

CAS # 10294-41-4 DOT 5.1/II

87871 10 G
87872 50 G

CEROUS NITRATE, HYDRATED, 99.99% ITEM 2203

$Ce(NO_3)_3 \bullet 6H_2O$ F.W. 434.25

Assay (metals basis) 99.99% min

CAS # 10294-41-4 DOT 5.1/II

26021 25 G

CEROUS NITRATE, HYDRATED, 99.9% ITEM A1653

$Ce(NO_3)_3 \bullet 6H_2O$ F.W. 434.25

CAS # 10294-41-4 DOT 5.1/II

21311 100 G
21312 500 G

CEROUS NITRATE, HYDRATED, REAGENT ITEM 30

$Ce(NO_3)_3 \bullet 6H_2O$ F.W. 434.25

Assay 99.0% Insoluble 0.10%
Chloride 0.01% Sulfate 0.05%
Iron 0.002%

CAS # 10294-41-4 DOT 5.1/II NFPA # 1-0-0

21301 100 G
21302 500 G
21303 2.5 KG
21304 10 KG
21305 50 KG
21306 500 KG
21307 1000 KG

CEROUS NITRATE, SOLUTION ITEM 1571

$Ce(NO_3)_3 \bullet 6H_2O$ F.W. 434.25

Assay (as Hexahydrate) 68-70% Other Rare Earths 0.5% max.
pH of 5% Dilution 0.0-4.0 Density 1.7 ± 0.1 g/mL

CAS # 10294-41-4 DOT 5.1/II

21321 206 L

Specific Gravity 1.710

CEROUS OXALATE, 99.99% ITEM 2205

$Ce_2(C_2O_4)_3 \bullet 9H_2O$ F.W. 706.44

Assay (metals basis) 99.99% min

CAS # 6003-86-7 DOT NR

26042 5 G
26041 25 G

CEROUS OXALATE, 99.9% ITEM 2264

$Ce_2(C_2O_4)_3 \bullet 9H_2O$ F.W. 706.44

Assay (metals basis) 99.9% min

CAS # 6003-86-7 DOT NR

21361 100 G
21362 500 G

C

CEROUS OXALATE, 99% ITEM A1659

$Ce_2(C_2O_4)_3 \bullet 9H_2O$ F.W. 706.44

CAS # 6003-86-7 DOT NR

21351	100 G	**$**
21352	500 G	

CEROUS PERCHLORATE, CRYSTALLINE HYDRATE ITEM 3740

Approximates trihydrate formulation at the time of packaging; ca 14% water. Packaged in ampules. Reduced-moisture salt for catalyst applications.

$Ce(ClO_4)_3 \bullet 3H_2O$ F.W. 492.36

Cerium content (by EDTA titration) 27.0-30.0%
Sulfate 0.005%
Chloride 0.01%
Insoluble matter 0.01%
Iron 0.002%
pH of 5% solution 1-3

CAS # 14017-47-1 DOT 5.1/II

10641	5 G
10642	25 G
10643	100 G

CEROUS PERCHLORATE, HYDRATED, REAGENT ITEM 32

$Ce(ClO_4)_3 \bullet 6H_2O$ F.W. 546.57

Cerium content (by EDTA titration) 23.5 - 27.0%
Insoluble 0.01%
Iron 0.002%
pH of 5% solution 1-3
Sulfate 0.005%
Chloride 0.01%

CAS # 14017-47-1 DOT 5.1/II

21403	100 G
21401	500 G
21402	2.5 KG
21405	50 KG
21406	100 KG

CEROUS SULFATE, HYDRATED, REAGENT ITEM 33

$Ce_2(SO_4)_3 \bullet 8H_2O$ F.W. 712.55

Cerium content 38.5-40.1%
Chloride 0.01%
Insoluble 0.10%
Iron 0.002%

CAS # 10450-59-6 DOT NR

21501	500 G
21502	2.5 KG
21503	10 KG
21504	50 KG

CEROUS SULFATE, HYDRATED, 99% ITEM A1677

$Ce_2(SO_4)_3 \bullet 8H_2O$ F.W. 712.55

CAS # 10450-59-6 DOT NR

21511	100 G

CEROUS TRIFLATE

See Cerous Trifluoromethanesulfonate, Hydrated

CEROUS TRIFLUOROMETHANESULFONATE, HYDRATED ITEM 3523

Not on the TSCA inventory

$Ce(CF_3SO_3)_3 \bullet XH_2O$ F.W. 587.33

CAS # 206996-62-5 DOT NR

21491	2 G
21492	10 G

CEROUS VANADATE, 99.9% ITEM 1364

$CeVO_4$ F.W. 255.06

CAS # 13597-19-8 DOT 6.1/II NFPA # 3-0-0

21531	50 G

CESIUM, 10,000 ppm ICP STANDARD SOLUTION ITEM 1723

Concentration 10,000 ± 100 ug/ml Matrix: <5% HNO3
NIST Traceable

DOT 8/III NFPA # 2-0-1

22230	100 ML
22232	500 ML

Specific Gravity 1.030

CESIUM, 1000 ppm ICP STANDARD SOLUTION ITEM 1722

Concentration 1,000 ± 10 ug/ml Matrix: <5% HNO3
NIST Traceable

DOT 8/III NFPA # 2-0-1

22220	100 ML
22222	500 ML

Specific Gravity 1.030

CESIUM ACETATE, 99.9% ITEM A1687

CsO_2CCH_3 F.W. 191.95

CAS # 3396-11-0 DOT NR NFPA # 1-0-0

21551	25 G
21552	100 G

CESIUM CARBONATE, 99.99+% ITEM 5018

Cs_2CO_3 F.W. 325.82

Assay (metals basis) 99.99+% min.

CAS # 534-17-8 DOT NR NFPA # 1-0-0

87141 5 G
87142 25 G

CESIUM CARBONATE, 99.9% ITEM 1365

Cs_2CO_3 F.W. 325.82

Assay (metals basis) 99.9%

CAS # 534-17-8 DOT NR NFPA # 1-0-0

21561 25 G
21562 100 G
21563 500 G

CESIUM CHLORIDE, 99.999% ITEM 5019

CsCl F.W. 168.36

Assay (metals basis) 99.999%

CAS # 7647-17-8 DOT NR NFPA # 1-0-0

87151 5 G
87152 25 G

CESIUM CHLORIDE, BIO-REFINED™ ITEM 1911

CsCl F.W. 168.36

Assay 99.5% min.
Loss on drying 0.05%
Total Nitrogen 0.001%
Absorbance (1M in H2O) @ 260 nm <0.02
pH(1M in H2O) 6.0-7.5
Insoluble matter 0.005%
Sulfate 0.002%
Absorbance (1M in H2O) @ 280 nm <0.01

Al 5 ppm
Bi 5 ppm
Co 5 ppm
Fe 5 ppm
Mg 5 ppm
Na 50 ppm
Sr 5 ppm
As 0.1 ppm
Ca 10 ppm
Cr 5 ppm
K 50 ppm
Mn 5 ppm
Ni 5 ppm
Zn 5 ppm
Ba 5 ppm
Cd 5 ppm
Cu 5 ppm
Li 5 ppm
Mo 5 ppm
Pb 5 ppm

CAS # 7647-17-8 DOT NR NFPA # 1-0-0

21542 25 G
21541 100 G

CESIUM CHLORIDE, REAGENT ITEM 886

CsCl F.W. 168.36

Assay 99.5% min
pH of 5% solution 5.0-7.5 @ 25 C
Sulfate 0.005%
Iron 0.0005%
Loss on drying @ 105 C 0.05%
Insoluble 0.005%
Heavy metals (as Pb) 0.0005%

CAS # 7647-17-8 DOT NR NFPA # 1-0-0

21601 25 G
21602 100 G
21605 10 KG
21606 50 KG
21607 500 KG

CESIUM CHROMATE, 99.9% ITEM 1366

Cs_2CrO_4 F.W. 381.80

Assay (metals basis) 99.9%
Insoluble Matter 0.01%
Chromium Content 13.1% - 14.1%

CAS # 13454-78-9 DOT 6.1/III

21581 25 G

CESIUM DICHROMATE, 99.9% ITEM A1722

Not on the TSCA inventory.

$Cs_2Cr_2O_7$ F.W. 481.80

Assay (metals basis) 99.9%

CAS # 13530-67-1 DOT 6.1/III

21611 25 G

CESIUM FLUORIDE, 99.9% ITEM A1725

CsF F.W. 151.90

Assay (metals basis) 99.9%

CAS # 13400-13-0 DOT 6.1/III

21621 25 G

CESIUM HYDROXIDE, 99.9% ITEM 1367

$CsOH \bullet H_2O$ F.W. 167.93

Assay (metals basis) 99.9% min.

CAS # 35103-79-8 DOT 8/II

21691 25 G

CESIUM HYDROXIDE, 99.9%, 50% AQUEOUS SOLUTION ITEM 3625

CsOH F.W. 149.91

Concentration (as CsOH) 50 ± 1%
Assay (metals basis) 99.9%

CAS # 21351-79-1 DOT 8/II

21591 10 G
21592 50 G
21593 250 G

Specific Gravity 1.720

CESIUM HYDROXIDE, 99%, 50% AQUEOUS SOLUTION ITEM 3626

CsOH F.W. 149.91

Concentration (as CsOH) 50 ± 1%
Assay (metals basis) 99%

CAS # 21351-79-1 DOT 8/II

21481 10 G
21482 50 G
21483 250 G

Specific Gravity 1.720

C

CESIUM IODIDE, 99.999% — ITEM A1740

CsI F.W. 259.81

CAS # 7789-17-5 DOT NR NFPA # 1-0-0

21661 10 G
21662 50 G

CESIUM IODIDE, 99.9% — ITEM A1734

CsI F.W. 259.81

Assay (metals basis) 99.9%

CAS # 7789-17-5 DOT NR NFPA # 1-0-0

21641 25 G
21642 100 G

CESIUM NITRATE, 99.999% — ITEM A1742

$CsNO_3$ F.W. 194.91

Assay (metals basis) 99.999%

CAS # 7789-18-6 DOT 5.1/III

21681 10 G
21682 50 G

CESIUM NITRATE, 99.9% — ITEM A1741

$CsNO_3$ F.W. 194.91

Assay (metals basis) 99.9% min

CAS # 7789-18-6 DOT 5.1/III

21671 25 G
21672 100 G

CESIUM NITRATE, REAGENT — ITEM 887

$CsNO_3$ F.W. 194.91

Assay 99% min.
Chloride 0.003%
Heavy Metals (Pb) 0.0005%
Insoluble 0.005%
Sulfate 0.005%
Iron 0.0005%

CAS # 7789-18-6 DOT 5.1/III

21651 25 G
21652 100 G
21655 10 KG
21656 50 KG

CESIUM PERCHLORATE, REAGENT — ITEM 341

$CsClO_4$ F.W. 232.37

Assay 99.0% min.
Chloride 0.003%
Iron 0.0005%
pH of 5% solution 6.0-8.0
Insoluble 0.005%
Sulfate 0.001%
Heavy Metals 0.0005%

CAS # 13454-84-7 DOT 5.1/II NFPA # 1-0-1

21701 25 G
21702 100 G
21703 500 G
21706 50 KG
21707 100 KG

CESIUM SULFATE, 99.999% — ITEM A1747

Cs_2SO_4 F.W. 361.87

Assay (metals basis) 99.999% min.

CAS # 10294-54-9 DOT NR NFPA # 1-0-0

21711 25 G
21712 100 G

CESIUM SULFATE, REAGENT — ITEM 888

Cs_2SO_4 F.W. 361.87

Insoluble 0.005%
Heavy Metals 0.0005%
Chloride 0.003%
Iron 0.0005%

CAS # 10294-54-9 DOT NR NFPA # 1-0-0

21721 25 G
21722 100 G

CESIUM TRIIODIDE, 99% — ITEM A1749

CsI_3 F.W. 513.62

CAS # 12297-72-2 DOT NR

21731 10 G

CETYLTRIMETHYLAMMONIUM BROMIDE, 98% — ITEM 3557

$CH_3(CH_2)_{15}N(CH_3)_3Br$ F.W. 364.46

Assay (dry basis) 98%
Loss on drying 0.5%

CAS # 57-09-0 DOT 9/III

21871 25 G
21872 100 G
21873 500 G

CHLORAMINE T, REAGENT (ACS) ITEM 889

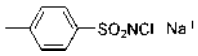
(N-chloro-p-toluenesulfonamide, sodium salt)

$CH_3C_6H_4SO_2NClNa•3H_2O$ F.W. 281.70

Assay (iodometric titration)
98.0-103.0%
Insoluble in alcohol 1.5%
Clarity of solution - Clear solution
pH of 5% solution 8.0-10.0 @ 25 C
Suitability for bromide Pass Test
Appearance - white crystalline powder

CAS # 7080-50-4 DOT 8/III NFPA # 3-1-2

21742	100 G	**$**
21741	500 G	



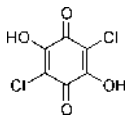
CHLORANILIC ACID, 99% ITEM 2729

$C_6H_2O_4Cl_2$ F.W. 208.98

Assay 99% min.

CAS # 87-88-7

30031	25 G
30032	100 G



CHLORATE, 1,000 ppm, ION CHROMATOGRAPHY STANDARD SOLUTION ITEM 3756

Concentration (as chlorate)
1,000 ± 10 ug/mL
Matrix: sodium chlorate, water

DOT NR

23831	100 ML
23832	500 ML

Specific Gravity 1.000

CHLORIDE, 1,000 ppm, ION CHROMATOGRAPHY STANDARD SOLUTION ITEM 3757

Concentration (as Cl) 1,000 ± 10 ug/mL
Matrix: KCl, water

DOT NR

23841	100 ML
23842	500 ML

Specific Gravity 1.000

CHLORIDE, 1000 ppm STANDARD SOLUTION ITEM 746

Volumetric, colorimetric or turbidimetric standard.

Concentration 1,000 ± 10 ug/ml
Matrix: Potassium salt in water
NIST Traceable

DOT NR NFPA # 0-0-0

70090	100 ML
70092	500 ML

Specific Gravity 1.030

CHLORIDE COLOR REAGENT, MERCURIC THIOCYANATE 0.06% SOLUTION ITEM 1991

Ready to use solution. Contains mercuric thiocyanate and ferric nitrate.

Suitability for chloride determination - Pass Test
Sensitivity to chloride - Pass Test

DOT 3/III

50040	1 L
50041	4 L

Specific Gravity 1.000

CHLORIDE COLORIMETRIC ANALYSIS REAGENT SET ITEM 2349

For use with Organic Halogen Reagent. Set consists of GFS # 746 Chloride 1000 ppm Standard, 100 ml, GFS # 2068 Ferric Nitrate, 20% Sol'n., 500 ml, and GFS # 2352 Mercuric thiocyanate Sol'n., 500 ml.

29991	1 SET

CHLORIDE IONOPHORE I ITEM 2913

meso-Tetraphenylporphyrin Manganese (III) chloride complex.

$C_{44}H_{28}ClMnN_4$ F.W. 703.12

CAS # 32195-55-4 DOT NR

28541	50 MG
28542	250 MG

CHLORITE, 1,000 ppm, ION CHROMATOGRAPHY STANDARD SOLUTION ITEM 3758

Concentration (as chlorite)
1,000 ± 10 ug/mL
Matrix: sodium chlorite, water

DOT NR

23851	100 ML
23852	500 ML

Specific Gravity 1.000

C

2-CHLOROACETAL

See Chloroacetaldehyde Diethyl Acetal, 98%

CHLOROACETALDEHYDE DIETHYL ACETAL, 98% ITEM 2728

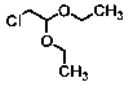
$ClCH_2CH(OCH_2CH_3)_2$ F.W. 152.62

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless liquid

CAS # 621-62-5 DOT 3/III

30021	100 G
30022	500 G

Specific Gravity 1.015



CHLOROACETIC ACID, REAGENT (ACS) ITEM 1071

Monochloroacetic acid

$CH_2ClCOOH$ F.W. 94.50

Assay 99.0% min.
Carbonyl cmpds 0.01% others
Residue on ignition 0.02%
Substances darkened by H2SO4 - pass test
Heavy Metals 0.001%
Carbonyl cmpds 0.02% acetone
Insoluble 0.01%
Chloride 0.01%
Sulfate 0.02%
Iron 0.002%

CAS # 79-11-8 DOT 6.1/8/II NFPA # 3-1-0

21761	500 G
21762	2.5 KG
21763	10 KG
21764	50 KG

Specific Gravity 1.580

CHLOROAURIC ACID

See Hydrogen Tetrachloroaurate, Trihydrate

CHLOROBENZENE, REAGENT (ACS) ITEM 1072

C_6H_5Cl F.W. 112.56

Assay (GLC) 99.5% min
Titrable acid 0.004 meq/g
Residue after evaporation 0.02%
Color (APHA) 30 max

CAS # 108-90-7 DOT 3/III NFPA # 2-3-1

21781	500 ML
21782	4 L

Specific Gravity 1.107

1-CHLOROBUTANE, 99% ITEM 5311

$CH_3(CH_2)_3Cl$ F.W. 92.57

Assay (GC-FID), 98.5% min

CAS # 109-69-3 DOT 3/II

14951	100 ML
14952	1 L

Specific Gravity 0.886

4-CHLORO-1-BUTYNE, 99% ITEM 5535

Not on the TSCA inventory.

$HC{\equiv}CCH_2CH_2Cl$ F.W. 88.54

Assay (GC-FID), 98.5% min
H2O (KF), 0.2% min
Clarity / Form - Clear, liquid
Identification by GC/MS - Conforms
Color - Colorless to yellow

CAS # 51908-64-6 DOT 3/II

Please For Sizes

Specific Gravity 0.995

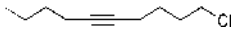
1-CHLORO-5-DECYNE, 98% ITEM 3432

$CH_3(CH_2)_3C{\equiv}C(CH_2)_4Cl$ F.W. 172.70

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 54377-34-3 DOT NR

30052	25 G
30053	100 G



2-CHLORO-1,1-DIETHOXY ETHANE

See Chloroacetaldehyde Diethyl Acetal, 98%

1-CHLORO-3,3-DIMETHYLBUTANE ITEM 3810

Not on the TSCA inventory.

$(CH_3)_3CCH_2CH_2Cl$ F.W. 120.61

CAS # 2855-08-5 DOT 3/II

Please For Sizes

1-CHLORO-2,2-DIMETHYLPROPANE, 98% ITEM 2530

Neopentyl Chloride

$ClCH_2C(CH_3)_3$ F.W. 106.60

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless to yellow liquid
Identification by GC/MS - Conforms

CAS # 753-89-9 DOT 3/II NFPA # 3-3-0

30041	5 G
30042	25 G
30043	100 G
30044	1 KG

Specific Gravity 0.866

1-CHLORO-2,3-EPOXYPROPANE

See Epichlorohydrin, 99%

1-CHLORO-4-ETHYNYLBENZENE

See 4-Chlorophenylacetylene

CHLOROFORM, VERITAS® ULTIMATE, ALCOHOL STABILIZED — ITEM 3778

Suitable for pesticide analysis, gas chromatography, liquid chromatography and ultraviolet spectrophotometry.

$CHCl_3$ F.W. 119.38

Assay (GLC) 99.8%
Chlorinated hydrocarbon residue 10 pg/ml
Water 0.02%
UV Absorbance @ 270 nm 0.02
UV Absorbance @ 255 nm 0.15
Liquid Chrom. Absorbance - pass test
Boiling Range 60-61 C
Residue after evaporation 0.0003%
UV Absorbance @ 280-400 nm 0.01
UV Absorbance @ 260 nm 0.05
UV Absorbance @ 245 nm 1.00

CAS # 67-66-3 DOT 6.1/III NFPA # 3-0-1

10681	1 L
10682	6 X 1 L
10683	4 L
10684	4 X 4 L

Specific Gravity 1.476

CHLOROFORM, VERITAS® ULTIMATE, HYDROCARBON STABILIZED — ITEM 1234

Suitable for pesticide analysis, gas chromatography, liquid chromatography and ultraviolet spectrophotometry.

$CHCl_3$ F.W. 119.38

Assay (GLC) 99.8%
Chlorinated hydrocarbon residue 10 pg/ml
Water 0.02%
UV Abs. @ 270 nm 0.02
UV Abs. @ 255 nm 0.15
Liquid Chrom. Absorbance - Pass test
Residue after evaporation 0.0003%
UV Absorbance @ 280-400 nm 0.01
UV Abs. @ 260 nm 0.05
UV Abs. @ 245 nm 1.00

CAS # 67-66-3 DOT 6.1/III NFPA # 3-0-1

21813	1 L
21814	6 X 1 L
21811	4 L
21812	4 X 4 L

Specific Gravity 1.476

CHLOROFORM, REAGENT (ACS), ALCOHOL STABILIZED — ITEM 3777

$CHCl_3$ F.W. 119.38

Assay 99.8% min
Residue after evaporation 0.001%
Acid and Chloride - Passes test
Lead (Pb) 0.000005%
Suitability for use in dithizone tests-passes test
Color (APHA) 10
Acetone and aldehyde - Passes test (limit ~0.005%)
Free chlorine (Cl) - passes test
Substances darkened by sulfuric acid - passes test
Stabilizer - ethanol about 1%

CAS # 67-66-3 DOT 6.1/III NFPA # 3-0-1

10671	500 ML
10672	6 X 500 ML
10674	4 L
10675	4 X 4 L
10677	20 L

Specific Gravity 1.484

CHLOROFORM, REAGENT (ACS), HYDROCARBON STABILIZED — ITEM 2394

Trichloromethane

$CHCl_3$ F.W. 119.38

Assay 99.8% min
Residue after evaporation 0.001%
Acid and Chloride - Passes test
Lead (Pb) 0.000005%
Stabilizer - Amylene 75-200 ppm
Color (APHA) 10
Acetone and aldehyde - Passes test (limit .0005%)
Free chlorine (Cl) - passes test
Suitability for use in dithizone tests-passes test
Iron and copper free - Passes test

CAS # 67-66-3 DOT 6.1/III NFPA # 3-0-1

88151	500 ML
88155	6 X 500 ML
88153	4 L
88154	4 X 4 L
88156	20 L

Specific Gravity 1.484

7-CHLORO-1-HEPTENE, 97% — ITEM 5300

Not on the TSCA inventory.

$CH_2{=}CH(CH_2)_5Cl$ F.W. 132.63

Assay (GC-FID), 96.5% min
Appearance - Clear, colorless to yellow liquid
Identification by GC/MS - Conforms

CAS # 929-21-5 DOT 3/III

14962	5 G
14961	25 G
14963	100 G
14964	500 G

Specific Gravity 0.880

C

7-CHLORO-1-HEPTYNE, 98% ITEM 5543

Not on the TSCA inventory.

$HC{\equiv}C(CH_2)_5Cl$ F.W. 130.61

Assay (GC-FID) 97.5% min

CAS # 18804-36-9

Please For Sizes

Specific Gravity 0.938

6-CHLORO-1-HEXENE, 97% ITEM 3045

$Cl(CH_2)_4CH{=}CH_2$ F.W. 118.61

Assay (GC-FID), 96.5% min
H2O (KF), 0.1% max
Clarity / Form - Clear, liquid

Identification by GC/MS - Conforms
Color - Colorless

CAS # 928-89-2 DOT 3/II

80431	10 G
80432	50 G

Specific Gravity 0.907

6-CHLORO-1-HEXYNE, 97% ITEM 3046

Not on the TSCA inventory.

$Cl(CH_2)_4C{\equiv}CH$ F.W. 116.59

Assay (GC-FID), 96.5% min
Color(APHA), 100 max

Identification by GC/MS - Conforms
Appearance, Clear liquid

CAS # 10297-06-0 DOT 3/III

80441	10 G
80442	50 G
80443	250 G
80444	1 KG
80445	3.5 KG
80446	19 KG
80447	52 KG
80448	195 KG

Specific Gravity 0.968

1-CHLORO-6-IODOHEXANE, 95% ITEM 3047

Light Sensitive; Stored over copper.

$I(CH_2)_6Cl$ F.W. 246.51

Assay (GC-FID), 94.0% min
Stabilizer (Copper shot), Confirm presence
Clarity / Form - Clear to slightly hazy liquid

Identification by GC/MS - Conforms
Color - Colorless to yellow
Note: Haze is due to oxidation of stabilizer

CAS # 34683-73-3 DOT NR

80451	10 G
80452	50 G
80453	250 G

Specific Gravity 1.623

6-CHLORO-1-IODOHEXANE

See 1-Chloro-6-Iodohexane

1-CHLORO-3-IODOPROPANE, 98% ITEM 3791

Stored over copper.

$Cl(CH_2)_3I$ F.W. 204.44

Assay (GC-FID), 97.5% min
Stabilizer (Copper), Confirm presence

Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 6940-76-7 DOT NR

10691	25 G
10692	100 G

3-CHLORO-3-METHYLBUTANONE, 97% ITEM 3558

Not on the TSCA inventory.

$(CH_3)_2C(Cl)COCH_3$ F.W. 120.58

Assay (GC-FID), 96.5% min

Identification by GC/MS - Conforms

CAS # 5950-19-6 DOT 3/II

30061	10 G
30062	50 G

3-CHLORO-3-METHYL-1-BUTYNE, 97% ITEM 3048

$(CH_3)_2C(Cl)C{\equiv}CH$ F.W. 102.56

Assay (GC-FID) - 96.5% min.
Water (KF) - 0.3% max.
Clarity / Form - Clear Liquid
Identification by GC/MS - Conforms
Color - 150 APHA max.

CAS # 1111-97-3 DOT 3/II

80461	10 G
80462	50 G
80463	500 G
80464	2 KG
80465	17.5 KG
80466	50 KG

Specific Gravity 0.907

2-CHLORO-2-METHYLPROPANE, 99% ITEM 3720

t-Butyl chloride

$(CH_3)_3CCl$ F.W. 92.57

Assay (GC-FID), 98.5% min
Color - Colorless
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 507-20-0 DOT 3/II

10521	500 ML
10522	2.5 L

Specific Gravity 0.846

1-CHLORO-4-NONYNE, 98% ITEM 3052

Not on the TSCA inventory.

$CH_3(CH_2)_3C{\equiv}C(CH_2)_2CH_2Cl$ F.W. 158.67

Assay (GC-FID), 97.5% min
Color - Colorless to yellow
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 3416-74-8 DOT 9/III

80501	5 G
80502	25 G

Specific Gravity 0.917

1-CHLOROOCTANE, 99% ITEM 5196

$CH_3(CH_2)_7Cl$ F.W. 148.68

Assay 99%

CAS # 111-85-3 DOT 3/III

10711

Specific Gravity 0.873

8-CHLORO-1-OCTENE, 97% ITEM 5344

$Cl(CH_2)_6CH{=}CH_2$ F.W. 146.66

Assay (GC-FID), 96.5% min
Color - Colorless to yellow
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 871-90-9 DOT 3/III

Please For Sizes

Specific Gravity 0.860

8-CHLORO-1-OCTYNE, 98% ITEM 5667

$C_8H_{13}Cl$ F.W. 144.6418

Assay(GC-FID), 97.5% min
Color(APHA), 100 max.
Identification by GC/MS, Conforms
Appearance, Clear liquid

CAS # 24088-97-9 DOT NR

21291	10 G
21292	50 G
21293	250 G
21294	1 KG
21295	3.5 KG
21296	18 KG
21297	52 KG
21298	190 KG

Specific Gravity 0.928

1-CHLORO-2-PENTYNE, 98% ITEM 3408

$CH_3CH_2C{\equiv}CCH_2Cl$ F.W. 102.57

Assay (GC-FID), 97.5% min

CAS # 22592-15-0

Please For Sizes

5-CHLORO-1-PENTYNE, 98% ITEM 3053

Requires refrigeration.

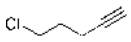
$HC{\equiv}C(CH_2)_3Cl$ F.W. 102.57

Assay (GC-FID) - 97.5% min.
Color - 150 APHA max.
Identification by GC/MS - Conforms
Clarity / Form - Clear Liquid

CAS # 14267-92-6 DOT 3/II

80511	10 G
80512	50 G
80513	250 G
80514	1.5 KG
80515	19 KG
80516	50 KG

Specific Gravity 0.968



C

5-CHLORO-1-PENTYNE, 96%, TECHNICAL — ITEM 3054

$HC{\equiv}C(CH_2)_3Cl$ F.W. 102.57

Assay (GC-FID), 95.0% min
Color - Colorless to yellow
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 14267-92-6 DOT 3/II

80521	10 G
80522	50 G
80523	250 G
80524	1.5 KG
80525	19 KG
80526	50 KG

Specific Gravity 0.968

C

CHLOROPHENOL RED, SODIUM SALT — ITEM 684

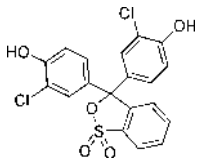
Water soluble pH indicator.

$C_{19}H_{11}Cl_2O_5SNa$ F.W. 445.26

Visual transition pH 4.8-6.4, yellow-red

CAS # 4430-20-0 DOT NR

30001	1 G
30002	5 G



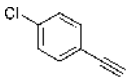
4-CHLOROPHENYLACETYLENE — ITEM 5259

Not on the TSCA inventory.

$ClC_6H_4C{\equiv}CH$ F.W. 136.58

CAS # 873-73-4

Please For Sizes



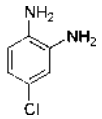
4-CHLORO-1,2-PHENYLENEDIAMINE, 97% — ITEM 2730

$ClC_6H_3(NH_2)_2$ F.W. 142.59

Assay 97% min.

CAS # 95-83-0 DOT 6.1/III NFPA # 2-0-0

30091	5 G
30092	25 G



1-CHLORO-9,10-bis-(PHENYLETHYNYL)ANTHRACENE, 98% — ITEM 3040

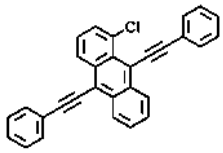
Light sensitive, protect from light.

$ClC_{14}H_7(C{\equiv}CC_6H_5)_2$ F.W. 412.92

Assay 98% min. Melting point 204-205 C

CAS # 41105-35-5 DOT NR

80381	10 G
80382	50 G



4-CHLOROPHENYLMAGNESIUM BROMIDE, 1 M, in DIETHYL ETHER — ITEM 5200

Not on the TSCA inventory

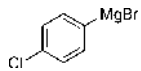
ClC_6H_4MgBr F.W. 215.76

Concentration 1.00 ± 0.05 M

CAS # 873-77-8 DOT 4.3/3/I

Please For Sizes

Specific Gravity 0.887



4-CHLOROPHENYLMAGNESIUM BROMIDE, 1 M, in TETRAHYDROFURAN — ITEM 5265

ClC_6H_4MgBr F.W. 215.76

Concentration 1.0 ± 0.1 M
Des-chloro - report
4,4'-dichlorobiphenyl - report

CAS # 873-77-8 DOT 4.3/3/I NFPA # 3-3-3

Please For Sizes

CHLOROPLATINIC ACID, HYDRATE, 99.99% — ITEM 5063

Typically 40% Pt

$H_2PtCl_6{\bullet}xH_2O$ F.W. 409.82

Assay (metals basis) 99.99% min. Platinum content

CAS # 26023-84-7 DOT 8/III NFPA # 3-0-2

87591	250 MG
87592	1 G
87593	5 G

CHLOROPLATINIC ACID, HEXAHYDRATE, REAGENT (ACS) ITEM 890

$H_2PtCl_6 \bullet 6H_2O$ F.W. 517.90

Assay (as Pt) 37.50% min
Alkali and other salts (as SO4) 0.05%
Solubility in alcohol - Pass Test
Suitability for potassium determin. - Pass Test

CAS # 18497-13-7 DOT 8/III NFPA # 3-0-2

30101 1 G
30103 5 G
30102 10 G

3-CHLOROPROPENE

See Allyl Chloride, 98%

CHLOROTRIETHYLSILANE, 98+% ITEM 3323

Triethylchlorosilane.

$(C_2H_5)_3SiCl$ F.W. 150.72

Assay (GC-FID), 98.0% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 994-30-9 DOT 8/3/II NFPA # 3-3-2

83173 5 G
83171 25 G
83172 100 G

Specific Gravity 0.896

1-CHLORO-5-TRIETHYLSILYL-4-PENTYNE, 97% ITEM 3055

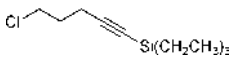
Not on the TSCA inventory.

$(C_2H_5)_3SiC{\equiv}CCH_2CH_2CH_2Cl$ F.W. 216.83

Assay (GC-FID), 96.5% min
Identification by GC/MS - Conforms

CAS # 174125-30-5 DOT 8/II

80531 5 G
80532 25 G



CHLOROTRIISOPROPYLSILANE, 98% ITEM 3335

Triisopropylchlorosilane. Not on the TSCA inventory.

$[(CH_3)_2CH]_3SiCl$ F.W. 192.81

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 13154-24-0 DOT 8/II NFPA # 3-2-1

83291 25 G
83292 100 G
83294 500 G

Specific Gravity 0.901

CHLOROTRIMETHYLSILANE, 98+% ITEM 3380

Trimethylchlorosilane.

$(CH_3)_3SiCl$ F.W. 108.64

Assay (GC-FID), 98.0% min
Identification by GC/MS - Conforms

CAS # 75-77-4 DOT 3/8/II NFPA # 3-3-1

83741 100 ML
83742 500 ML

Specific Gravity 0.860

6-CHLORO-1-TRIMETHYLSILYLOXYHEXANE, 97% ITEM 3056

Not on the TSCA inventory.

$Cl(CH_2)_6OSi(CH_3)_3$ F.W. 208.80

Assay 97% min.

CAS # 34714-00-6

80541 5 G
80542 25 G

Specific Gravity 0.929

C

1-CHLORO-5-(TRIMETHYLSILYL)-4-PENTYNE, 98% ITEM 3057

Not on the TSCA inventory.

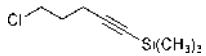
$(CH_3)_3SiC{\equiv}C(CH_2)_3Cl$ F.W. 174.75

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 77113-48-5 DOT 8/II

80551 10 G
80552 50 G

Specific Gravity 0.895



11-CHLORO-1-UNDECENE, 97% ITEM 3058

Not on the TSCA inventory.

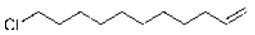
$Cl(CH_2)_9CH{=}CH_2$ F.W. 188.74

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 872-17-3 DOT 9/III

80561 10 G
80562 50 G

Specific Gravity 0.995



CHROMATE, 1,000 ppm, ION CHROMATOGRAPHY STANDARD SOLUTION ITEM 3759

Concentration (as CrO4)
1,000 ± 10 ug/mL Matrix: potassium chromate, water

DOT NR

23861 100 ML
23862 500 ML

Specific Gravity 1.000

CHROME ALUM

See Chromium Potassium Sulfate

CHROMIC ACID

See Chromium Trioxide, 50%
Chromium Trioxide

CHROMIUM, 99.999%, GRANULAR ITEM A1821

Cr F.W. 52.00

Assay (metals basis) 99.999%

CAS # 7440-47-3 DOT NR NFPA # 0-0-0

30121 25 G

CHROMIUM, 99.5% LUMP ITEM 2279

Typically 20 mm and smaller.

Cr F.W. 52.00

Assay 99.5% min. (metals basis)

CAS # 7440-47-3 DOT NR

30111 100 G

CHROMIUM, 10,000 ppm ICP STANDARD SOLUTION ITEM 2725

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III

22255 100 ML
22257 500 ML

Specific Gravity 1.030

CHROMIUM, 10,000 ppm ICP STANDARD ITEM 1725

Concentration 10,000 ± 100 ug/ml Matrix: <5% HCl
NIST Traceable

DOT 8/III NFPA # 2-0-2

22250 100 ML
22252 500 ML

Specific Gravity 1.010

CHROMIUM, 1000 ppm ICP STANDARD SOLUTION ITEM 1974

Concentration 1000 ± 10 ug/mL Matrix: 5% HNO3
NIST Traceable

DOT 8/III

23700 100 ML
23702 500 ML

Specific Gravity 1.030

CHROMIUM, 1000 ppm ICP STANDARD SOLUTION — ITEM 172

Concentration 1,000 ± 10 ug/ml Matrix: <5% HCl
NIST Traceable

DOT 8/III NFPA # 2-0-0

22240 100 ML
22242 500 ML

Specific Gravity 1.010

CHROMIUM, 1000 ppm STANDARD SOLUTION — ITEM 747

AA or colorimetric standard

Concentration 1,000 ± 10 ug/ml Matrix: Potassium dichromate in water
NIST Traceable

DOT NR NFPA # 2-0-0

70100 100 ML
70102 500 ML

Specific Gravity 1.000

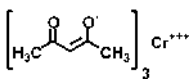
CHROMIUM ACETYLACETONATE — ITEM 2278

$Cr(CH_3COCH=COCH_3)_3$ F.W. 349.33

Melting point 210 C min.

CAS # 21679-31-2 DOT NR

30131 100 G



CHROMIUM BORIDE, POWDER — ITEM A1836

-325 Mesh

CrB F.W. 62.81

Particle size -325 mesh

CAS # 12006-79-0 DOT NR

30141 50 G

CHROMIUM CHLORIDE, HEXAHYDRATE, 99.995% — ITEM 5021

$CrCl_3 \bullet 6H_2O$ F.W. 266.46

Assay (metals basis) 99.995%

CAS # 10060-12-5 DOT NR NFPA # 1-0-2

87171 10 G
87172 50 G

CHROMIUM CHLORIDE, HEXAHYDRATE, REAGENT — ITEM 891

$CrCl_3 \bullet 6H_2O$ F.W. 266.46

Insoluble 0.01% Sulfate 0.01%
Iron 0.01%

CAS # 10060-12-5 DOT NR NFPA # 1-0-2

30152 100 G
30151 500 G

CHROMIUM DIBORIDE — ITEM A1839

-325 Mesh

CrB_2 F.W. 73.62

CAS # 12007-16-8 DOT NR

30161 25 G

CHROMIUM NITRATE, NONAHYDRATE, 99.99% — ITEM 5022

$Cr(NO_3)_3 \bullet 9H_2O$ F.W. 400.15

Assay (metals basis) 99.99% min

CAS # 7789-02-8 DOT 5.1/III NFPA # 2-0-3

87181 5 G
87182 25 G

CHROMIUM NITRATE, NONAHYDRATE, REAGENT — ITEM 892

$Cr(NO_3)_3 \bullet 9H_2O$ F.W. 400.15

Assay 98.0% min. Insoluble 0.01%
Chloride 0.002% Sulfate 0.01%
Iron 0.005%

CAS # 7789-02-8 DOT 5.1/III NFPA # 2-0-3

30180 100 G
30181 500 G
30182 2.5 KG

CHROMIUM NITRIDE — ITEM A1872

-325 Mesh

Cr_2N F.W. 118.00

CAS # 12053-27-9 DOT 4.3/III

30191 50 G

CHROMIUM (III) OXIDE, 99.7% — ITEM 2277

Cr_2O_3 F.W. 151.99

Assay (metals basis) 99.7% min.

CAS # 1308-38-9 DOT NR

30216 100 G
30217 500 G

C

CHROMIUM OXIDE, (VI)

See Chromium Trioxide

CHROMIUM POTASSIUM SULFATE, REAGENT (ACS) ITEM 781

$CrK(SO_4)_2 \bullet 12H_2O$ F.W. 499.41

Assay 98.0-102.0%
Chloride 0.002%
Ammonium 0.01%
Iron 0.01%
Insoluble 0.01%
Aluminum 0.02%
Heavy metals (Pb) 0.01%

CAS # 7788-99-0 DOT NR NFPA # 2-0-0

30256	100 G
30251	500 G
30252	2.5 KG
30253	10 KG
30254	50 KG

CHROMIUM SULFATE, REAGENT ITEM 893

x is typically 6-8.

$Cr_2(SO_4)_3 \bullet xH_2O$ F.W. 392.18 + XH2O

Assay (as Cr) 19% min.
Chloride 0.002%
Insoluble 0.01%
Iron 0.01%

CAS # 15244-38-9 DOT NR NFPA # 2-0-0

30281	100 G
30282	500 G

CHROMIUM TARTRATE ITEM 5297

$CrC_4H_3O_6$ F.W. 199.06

CAS # 62498-20-8 DOT NR

Please For Sizes

CHROMIUM TRIOXIDE, REAGENT (ACS) ITEM 685

aka "Chromic acid"

CrO_3 F.W. 99.99

Assay 98.0% min.
Chloride 0.005%
Sulfate 0.005%
Barium 0.01%
Sodium 0.2%
Insoluble 0.01%
Nitrate 0.05%
Aluminum 0.02%
Iron 0.02%

CAS # 1333-82-0 DOT 5.1/6/8/II NFPA # 3-0-3

30305	100 G
30301	500 G
30302	2.5 KG
30303	10 KG

CHROMIUM TRIOXIDE, 50%, AQUEOUS (W/W) ITEM 2545

CrO_3 F.W. 99.99

Assay 49-51%

CAS # 1333-82-0 DOT 8/II NFPA # 3-0-2

30291	1 L

Specific Gravity 1.490

CHROMOTROPIC ACID, DISODIUM SALT, REAGENT (ACS) ITEM 782

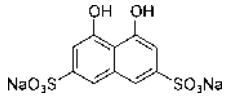
4,5-Dihydroxy-2,7-naphthalenedisulfonic Acid, Disodium Salt. Typically an off-white to brown powder.

$(HO)_2C_{10}H_4(SO_3Na)_2 \bullet 2H_2O$ F.W. 400.29

Sensitivity to Nitrate - pass test
Yellow to brown solution after filtration - pass
Sensititity to Formaldehyde - pass test

CAS # 5808-22-0 DOT NR NFPA # 1-0-0

30404	5 G
30401	25 G
30402	100 G
30403	500 G



CIS-BETA-METHYLSTYRENE

See cis-1-Propenylbenzene, 95%

CIS-BUTENDIOIC ACID

See Maleic Acid, 99%

CIS-9-OCTADECENOIC ACID

See Oleic Acid, 90%

CIS-PLATIN

See cis-Diammineplatinum (II) Chloride

CITRIC ACID, 99.998%, ANHYDROUS ITEM 5654

$HOOCCH_2C(OH)(COOH)CH_2COOH$ F.W. 192.13

Assay (metals basis) 99.998% min.
Assay (acid-base) 99.5% min.

CAS # 77-92-9 DOT NR

21141	100 G
21142	500 G

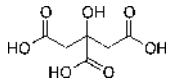
CITRIC ACID, ANHYDROUS, REAGENT (ACS) — ITEM 649

$HOOCCH_2C(OH)(COOH)CH_2COOH$ F.W. 192.13

Assay 99.5% min.
Residue after ignition 0.02%
Oxalate - Pass test (about 0.05%)
Sulfur compounds (as SO4) 0.002%
Iron 0.0003%
Insoluble 0.005%
Chloride 0.001%
Phosphate 0.001%
Lead 0.0002%
Subs. carbonizable by hot Sulfuric acid -Pass test

CAS # 77-92-9 DOT NR NFPA # 0-1-0

30501	500 G
30502	2.5 KG
30503	10 KG
30504	50 KG
30505	100 KG



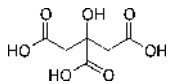
CITRIC ACID, ANHYDROUS, LOW METALS GRADE — ITEM 1588

$HOOCCH_2C(OH)(COOH)CH_2COOH$ F.W. 192.13

Assay 99.0-102.0%
Residue after ignition 0.02%
Oxalate - Pass Test
Sulfur compounds (as SO4) 0.002%
Insoluble 0.005%
Chloride 0.001%
Phosphate 0.001%
Subs. carbonizable by hot sulfuric acid- Pass Test

CAS # 77-92-9 DOT NR NFPA # 0-1-0

Please For Sizes



CITRIC ACID, MONOHYDRATE, REAGENT (ACS) — ITEM 894

$HOOCCH_2C(OH)(COOH)CH_2COOH•H_2O$ F.W. 210.14

Assay 99.0-102.0%
Residue after ignition 0.02%
Oxalate - Pass Test
Sulfur compounds (as SO4) 0.002%
Lead 0.0002%
Insoluble 0.005%
Chloride 0.001%
Phosphate 0.001%
Iron 0.0003%
Subs. carbonizable by hot sulfuric acid-pass test

CAS # 5949-29-1 DOT NR NFPA # 0-1-0

30516	100 G
30511	500 G
30512	2.5 KG
30513	10 KG
30514	50 KG
30515	100 KG

CITRIC ACID SOLUTION, 10% W/V — ITEM 2048

ASTM Reagent No. 129

$HOOCCH_2C(OH)(COOH)CH_2COOH$ F.W. 192.13

Concentration 10.0 ± 0.5%

CAS # 77-92-9 DOT NR

24471	500 ML
24472	4 L

Specific Gravity 1.040

COBALT, 99.995+% Powder — ITEM 5024

Co F.W. 58.93

Assay (metals basis) 99.995% min.

CAS # 7440-48-4 DOT 4.1/II

87201	5 G
87202	25 G

COBALT, 99.5%, PIECES — ITEM 1971

Co F.W. 58.93

Assay (metals basis) 99.5% min.

CAS # 7440-48-4 DOT NR

30531	100 G
30532	1 KG

COBALT, 99.5% POWDER — ITEM 2280

-325 mesh

Co F.W. 58.93

Assay (metals basis) 99.5%
Particle size -325 mesh 98% min.

CAS # 7440-48-4 DOT 4.1/II

30521	100 G

COBALT, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1727

Concentration 10,000 ± 100 ug/ml
Matrix: <5% HNO_3
NIST Traceable

DOT 8/III NFPA # 2-0-1

22270	100 ML
22272	500 ML

Specific Gravity 1.030

C

COBALT, 1000 ppm ICP STANDARD SOLUTION — ITEM 1726

Concentration 1,000 ± 10 ug/ml Matrix: <5% HNO3
NIST Traceable

DOT 8/III NFPA # 2-0-1

22260 100 ML
22262 500 ML

Specific Gravity 1.030

COBALT, 1000 ppm STANDARD SOLUTION — ITEM 748

AA or colorimetric standard

Concentration 1,000 ± 10 ug/ml Matrix: <5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

70110 100 ML
70112 500 ML

Specific Gravity 1.000

COBALT ACETATE, TETRAHYDRATE, 99.999% — ITEM A1977

$Co(C_2H_3O_2)_2 \bullet 4H_2O$ F.W. 249.09

Assay (metals basis) 99.999%

CAS # 6147-53-1 DOT NR NFPA # 1-0-1

30561 10 G
30562 50 G

COBALT ACETATE, TETRAHYDRATE, REAGENT (ACS) — ITEM 895

$Co(C_2H_3O_2)_2 \bullet 4H_2O$ F.W. 249.09

Assay 98.0-102.0%
Chloride 0.002%
Sulfate 0.005%
Copper 0.002%
Lead 0.001%
Nickel 0.1%
Sodium 0.05%
Insoluble 0.01%
Nitrate 0.01%
Calcium 0.005%
Iron 0.001%
Magnesium 0.005%
Potassium 0.01%
Zinc 0.01%

CAS # 6147-53-1 DOT NR NFPA # 1-0-0

30571 100 G
30572 500 G

COBALT ACETYLACETONATE — ITEM 5659

$Co(C_5H_7O_2)_2$ F.W. 257.15

Assay 97% min. Water 3% max.

CAS # 14024-48-7 DOT NR

Please For Sizes

COBALT AMMONIUM SULFATE HEXAHYDRATE — ITEM 5365

$(NH_4)_2Co(SO_4)_2 \bullet 6H_2O$ F.W. 395.23

Assay 99-101%

CAS # 13586-38-4 DOT NR

15331 25 G
15332 100 G

COBALT BROMIDE, ANHYDROUS, REAGENT — ITEM A1998

$CoBr_2$ F.W. 218.74

Assay 95% min.

CAS # 7789-43-7 DOT NR

30581 50 G

COBALT BROMIDE, HEXAHYDRATE — ITEM 3481

$CoBr_2 \bullet 6H_2O$ F.W. 326.83

Assay 98-102%

CAS # 13762-12-4 DOT NR

10751 25 G
10752 100 G
10753 500 G

COBALT CARBONATE, 99.5% — ITEM 1383

$CoCO_3$ F.W. 118.94

Assay (metals basis) 99.5% min.

CAS # 513-79-1 DOT NR NFPA # 1-0-2

30321 100 G

COBALT CHLORIDE, ANHYDROUS, 99.99+% — ITEM 3637

$CoCl_2$ F.W. 129.84

Assay (metals basis) 99.99+%

CAS # 7646-79-9 DOT 6.1/III

30761 5 G
30762 25 G

COBALT CHLORIDE, ANHYDROUS, 99% — ITEM A2019

$CoCl_2$ F.W. 129.84

Assay 99% min. Loss on drying @ 150 C 0.5%

CAS # 7646-79-9 DOT 6.1/III NFPA # 2-0-1

30592 10 G
30591 100 G
30593 500 G

COBALT CHLORIDE, HEXAHYDRATE, 99.999% — ITEM A2022

$CoCl_2 \cdot 6H_2O$ F.W. 237.93

Assay (metals basis) 99.999% min.

CAS # 7791-13-1 DOT NR NFPA # 2-0-0

30612	5 G
30611	25 G

COBALT CHLORIDE, HEXAHYDRATE, REAGENT (ACS) — ITEM 783

$CoCl_2 \cdot 6H_2O$ F.W. 237.93

Assay 98.0-102.0%
Nitrate 0.01%
Copper 0.002%
Zinc 0.03%
Calcium 0.005%
Potassium 0.01%
Insoluble 0.01%
Sulfate 0.01%
Nickel 0.1%
Iron 0.005%
Magnesium 0.005%
Sodium 0.05%

CAS # 7791-13-1 DOT NR NFPA # 2-0-0

30601	100 G
30602	500 G
30603	2.5 KG
30604	10 KG
30605	50 KG
30606	500 KG

COBALT CHROMATE — ITEM A2025

$CoCrO_4$ F.W. 174.93

Assay (metals basis) 99% min.

CAS # 13455-25-9 DOT NR

30621	100 G

COBALT FLUORIDE, 98% — ITEM A2034

CoF_2 F.W. 96.93

CAS # 10026-17-2 DOT 8/II

30651	25 G

COBALT HEXAAMMINE CHLORIDE

See Hexaamminecobalt (III) Chloride

COBALT HEXAMINE CHLORIDE

See Hexaamminecobalt (III) Chloride

COBALT HYDROXIDE, 95% — ITEM 3741

$Co(OH)_2$ F.W. 92.95

Assay 95%

CAS # 21041-93-0 DOT NR NFPA # 1-0-2

30771	100 G
30772	500 G
30773	2.5 KG

COBALT NITRATE, HEXAHYDRATE, 99.999% — ITEM A2070

$Co(NO_3)_2 \cdot 6H_2O$ F.W. 291.04

CAS # 10026-22-9 DOT 5.1/III NFPA # 2-0-3

30711	10 G
30712	50 G

COBALT NITRATE, HEXAHYDRATE, REAGENT (ACS) — ITEM 631

$Co(NO_3)_2 \cdot 6H_2O$ F.W. 291.04

Assay 98.0-102.0%
Chloride 0.002%
Zinc 0.01%
Copper 0.002%
Lead 0.002%
Magnesium 0.005%
Sodium 0.05%
Insoluble 0.01%
Sulfate 0.005%
Nickel 0.15%
Iron 0.001%
Calcium 0.005%
Potassium 0.01%

CAS # 10026-22-9 DOT 5.1/III NFPA # 2-0-3

30701	100 G
30702	500 G
30703	2.5 KG
30704	10 KG
30705	50 KG
30706	100 KG
30707	500 KG

COBALT OXALATE, REAGENT — ITEM A2076

$CoC_2O_4 \cdot 2H_2O$ F.W. 182.98

CAS # 5965-38-8 DOT NR

30731	100 G

COBALT OXIDE, REAGENT — ITEM 1149

Black cobalt oxide

Co_3O_4 F.W. 240.82

Assay (as Co) 70% min.
Chloride 0.01%
Iron 0.1%
Insoluble in HCl 0.02%
Nitrate 0.01%
Nickel 0.2%

CAS # 1308-06-1 DOT NR NFPA # 1-0-1

30753	25 G
30751	100 G
30752	500 G

COBALT OXYHYDROXIDE — ITEM 5491

X hydrate varies from 0-1.

$CoOOH \cdot XH_2O$ F.W. 91.94

Cobalt content 53.0-64.5%

CAS # 12016-80-7 DOT 5.1/II

Please For Sizes

COBALT PERCHLORATE, DEHYDRATED, REAGENT — ITEM 3793

Approximates dihydrate formulation; ca 20% H2O. Reduced-moisture salt to promote synthetic organic reactions, Bartoli, et al., J Org. Chem. (2003), 4611.

$Co(ClO_4)_2 \bullet 2H_2O$ F.W. 293.95

Cobalt content (by EDTA) 19.0-21.0%
Chloride 0.01%
pH of 5% solution 1-4
Insoluble matter 0.01%
Sulfate 0.005%

CAS # 13455-31-7 DOT 5.1/II

10761	25 G
10762	100 G
10763	500 G

C

COBALT PERCHLORATE, HEXAHYDRATE, REAGENT — ITEM 36

$Co(ClO_4)_2 \bullet 6H_2O$ F.W. 365.95

Cobalt content (by EDTA) 15.5-16.7%
pH of 5% solution 1-4
Chloride 0.01%
Sulfate 0.005%
Insoluble 0.01%

CAS # 13478-33-6 DOT 5.1/II

30800	25 G
30801	100 G
30802	500 G
30803	2.5 KG
30805	50 KG
30806	100 KG

COBALT POTASSIUM OXALATE

See Potassium Trioxalatocobaltate (III)

COBALT SULFATE, 99.999% — ITEM A2112

$CoSO_4 \bullet 7H_2O$ F.W. 281.12

CAS # 10026-24-1 DOT NR NFPA # 2-0-1

30891	25 G

COBALT SULFATE, REAGENT — ITEM 1020

Degree of hydration varies between 6 and 7.

$CoSO_4 \bullet 7H_2O$ F.W. 281.12

Cobalt content 20.5 - 22.0%
pH of 5% solution 3.0-7.0
Nitrate 0.005%
Iron 0.001%
Insoluble 0.01%
Chloride 0.001%
Copper 0.002%

CAS # 10026-24-1 DOT NR NFPA # 2-0-1

30911	100 G
30912	500 G
30915	2.5 KG
30913	10 KG

COBALT TETRAFLUOROBORATE — ITEM A2124

$Co(BF_4)_2 \bullet 6H_2O$ F.W. 340.64

Assay (metals basis) 96%

CAS # 26490-63-1 DOT NR

30951	100 G

COBALT THIOCYANATE, ANHYDROUS — ITEM 3624

$Co(SCN)_2$ F.W. 175.10

Assay (metals basis) 99.9% min.
Water (by KF) 2.0%
Cobalt content 32.0% min.

CAS # 3017-60-5 DOT NR

30391	5 G
30392	25 G
30393	100 G

COLOR STANDARD SOLUTION, APHA 500 — ITEM 2051

Platinum-Cobalt base

Absorbance (1 cm) @ 430 nm 0.110-0.120
Absorbance (1 cm) @ 480 nm 0.105-0.120
Absorbance (1 cm) @ 455 nm 0.130-0.145
Abosrbance (1 cm) @ 510 nm 0.055-0.065

DOT 8/III

24501	100 ML
24502	500 ML

Specific Gravity 1.023

COLOR STANDARD SOLUTION, APHA 250 — ITEM 9418

Platinum-Cobalt base

Suitability - Pass test
Prepared by dilution of AHPA 500

DOT 8/III

19251	100 ML

COLOR STANDARD SOLUTION, APHA 100 — ITEM 9033

Platinum-Cobalt base

Suitability - Pass test
Prepared by dilution of AHPA 500

DOT NR

19261	100 ML

COLOR STANDARD SOLUTION, APHA 50 — ITEM 9502

Platinum-Cobalt base

Suitability - Pass test — Prepared by dilution of AHPA 500

DOT NR

19341 100 ML

COLOR STANDARD SOLUTION, APHA 10 — ITEM 9498

Platinum-Cobalt base

Suitability - Pass test — Prepared by dilution of AHPA 500

DOT NR

19361 100 ML

CONDUCTIVITY STANDARD 100,000 uS/cm — ITEM 9357

Made from potassium chloride.

Conductivity 100,000 ± 1,000 uS/cm

DOT NR

19421 500 ML

CONDUCTIVITY STANDARD 50,000 uS/cm — ITEM 9205

Made from potassium chloride.

Conductivity 50,000 ± 500 uS/cm

DOT NR

19431 500 ML
19432 4 L

Specific Gravity 1.000

CONDUCTIVITY STANDARD 25,000 uS/cm — ITEM 2381

Made from potassium chloride.

Conductivity 25,000 ± 200 uS/cm

DOT NR

30972 500 ML
30971 4 L

Specific Gravity 1.000

CONDUCTIVITY STANDARD, 12,880 uS/cm — ITEM 3747

Made from potassium chloride.

Conductivity 12,880 ± 100 uS/cm — NIST Traceable

DOT NR

85816 500 ML
15231 4 L

Specific Gravity 1.000

CONDUCTIVITY STANDARD 10,000 uS/cm — ITEM 9414

Made from potassium chloride.

Conductivity 10,000 ± 100 uS/cm — NIST Traceable

DOT NR

15221 500 ML
15222 4 L

CONDUCTIVITY STANDARD 1413 uS/cm — ITEM 2174

Potassium chloride 0.01M.

KCl

Conductivity @ 25 C 1413 ± 14 uS/cm — NIST Traceable

DOT NR

30981 500 ML
30982 4 L

Specific Gravity 1.000

CONDUCTIVITY STANDARD 1,000 uS/cm — ITEM 9413

Made from potassium chloride.

Conductivity 1,000 ± 10 uS/cm — NIST Traceable

DOT NR

15211 500 ML
15212 4 L

CONDUCTIVITY STANDARD 400 uS/cm — ITEM 9376

Made from potassium chloride.

Conductivity 400 ± 4 uS/cm — NIST Traceable

DOT NR

19441 500 ML
19442 4 L

C

CONDUCTIVITY STANDARD 147 uS/cm ITEM 9245

Made from potassium chloride.

Conductivity 147 ± 1 uS/cm NIST Traceable

DOT NR

15191 500 ML
85743 4 L

Specific Gravity 1.000

CONDUCTIVITY STANDARD 100 uS/cm ITEM 9307

Made from potassium chloride.

Conductivity 100 ± 1 uS/cm NIST Traceable

DOT NR

15181 500 ML
15182 4 L

CONDUCTIVITY STANDARD 84 uS/cm ITEM 9477

Conductivity 84 ± 1 uS/cm

DOT NR

21221 4 L

CONDUCTIVITY STANDARD 10 uS/cm ITEM 9481

Made from potassium chloride.

Conductivity 10 uS/cm ± 0.1 uS/cm NIST Traceable

DOT NR

Please For Sizes

COPPER, PRIMARY STANDARD REAGENT (ACS), SHOT ITEM 686

Cu F.W. 63.55

Assay 99.90% min.
Antimony and tin (as Sn) 0.01%
Iron 0.005%
Manganese 0.001%
Silver 0.002%
Insoluble in dil. HNO3 0.02%
Arsenic 0.0005%
Lead 0.005%
Phosphorus 0.001%

CAS # 7440-50-8 DOT NR

31002 500 G
31003 2.5 KG

COPPER, 99.999%, POWDER ITEM 5025

Cu F.W. 63.55

Assay (metals basis) 99.999% min.

CAS # 7740-50-8 DOT NR

87211 5 G
87212 25 G

COPPER, 99.5%, SHOT, 20 MESH ITEM 6862

Spherical shot

Cu F.W. 63.55

Assay (metals basis) 99.5% min. Particle size on 20 mesh 5% max.

CAS # 7440-50-8 DOT NR

31081 100 G
31082 500 G

COPPER, GRANULAR, 20 MESH ITEM 6861

Cu F.W. 63.55

Mesh size

CAS # 7440-50-8 DOT NR

31009 42 G

COPPER, 99%, POWDER ITEM A2166

Cu F.W. 63.55

Assay 99.5% min. Particle size - through 325 mesh 50% min.

CAS # 7440-50-8 DOT NR NFPA # 1-3-0

30991 500 G

COPPER, 10,000 ppm ICP STANDARD SOLUTION ITEM 1729

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22290 100 ML
22292 500 ML

Specific Gravity 1.030

COPPER, 1,000 ppm ICP STANDARD SOLUTION ITEM 1728

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22280 100 ML
22282 500 ML

Specific Gravity 1.030

COPPER, 1,000 ppm STANDARD SOLUTION — ITEM 543

AA or colorimetric standard

Concentration 1,000 ± 10 ug/ml Matrix: <5% HNO3
NIST Traceable

DOT 8/III NFPA # 2-0-1

70150 100 ML
70152 500 ML

Specific Gravity 1.030

COPPER, 10 ppm STANDARD SOLUTION — ITEM 542

AA or colorimetric standard

Concentration 10 ug/ml Matrix: <5% HNO3
NIST Traceable

DOT NR NFPA # 2-0-1

70140 100 ML
70142 500 ML

Specific Gravity 1.030

COPPER, 5 ppm STANDARD SOLUTION — ITEM 2406

AA, colorimetric or volumetric standard

Concentration 5 ug/ml Matrix: <5% HNO3
NIST Traceable

DOT NR NFPA # 2-0-1

70130 100 ML
70132 500 ML

Specific Gravity 1.030

COPPER, 2 ppm STANDARD SOLUTION — ITEM 1544

AA, colorimetric or volumetric standard

Concentration 2 ug/ml Matrix: <5% HNO3
NIST Traceable

DOT NR NFPA # 2-0-1

70120 100 ML
70122 500 ML

Specific Gravity 1.030

COPPER ALUMINUM CATALYST — ITEM A2178

Raney Copper. 50:50 Powder

Cu•Al CAS # 7440-50-8 DOT NR

31051 500 G

COPPERAS

See Ferrous Sulfate, Heptahydrate

COPPER, RANEY

See Copper Aluminum Catalyst

COPPER SILICIDE, 99.4% — ITEM 1391

Cu_5Si F.W. 345.82

Assay (metals basis) 99.4%

CAS # 12159-07-8 DOT NR

31071 25 G

COPPER SULFATE

See Cupric Sulfate, Pentahydrate

COPPER TRIFLATE

See Cupric Trifluoromethanesulfonate, 98%, Cuprous Trifluoromethanesulfonate Toluene Complex

CORROSIVE SUBLIMATE

See Mercuric Chloride

CRESOLPHTHALEIN COMPLEXONE

See Metalphthalein

CRESOL RED — ITEM 896

o-Cresolsulfonphthalein. Water soluble pH indicator.

$C_{21}H_{17}O_5SNa$ F.W. 404.42

Visual transition pH 0.2-1.8, red-yellow Visual transition pH 7.2-8.8, yellow-red
Appearance - Brown powder

CAS # 62625-29-0 DOT NR

31101 10 G
31102 25 G

CRESOL RED SOLUTION, 0.04% AQUEOUS — ITEM 2057

$C_{21}H_{17}O_5SNa$ F.W. 404.42

Visual transition pH 0.2-1.8, red-yellow Visual transition pH 7.2-8.8, yellow-red

CAS # 62625-29-0 DOT NR

24561 500 ML

Specific Gravity 1.000

CRESOLSULFONPHTHALEIN

See Cresol Red

C

CRYOLITE

See Sodium Hexafluoroaluminate

CRYSTAL VIOLET, REAGENT (ACS) ITEM 687

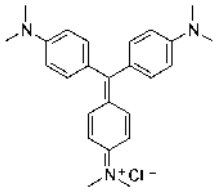
$C_{25}H_{30}ClN_3$ F.W. 407.99

Loss on drying 7.5% max.
Absorbance characteristics - pass test
Visual transition pH 0.8-2.6, green-blue-violet

Assay 90.0% min.
Sensitivity - pass test

CAS # 548-62-9 DOT NR NFPA # 2-1-1

31201 25 G
31202 100 G



CUPRIC ACETATE, MONOHYDRATE, REAGENT (ACS) ITEM 784

$Cu(C_2H_3O_2)_2 \bullet H_2O$ F.W. 199.65

Assay 98.0-102.0%
Chloride 0.003%
Sodium 0.05%
Calcium 0.005%
Nickel 0.01%
Insoluble 0.01%
Sulfate 0.01%
Iron 0.002%
Potassium 0.01%

CAS # 6046-93-1 DOT NR NFPA # 2-0-1

31500 100 G
31501 500 G
31502 2.5 KG

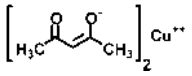
CUPRIC ACETYLACETONATE ITEM A2175

$Cu(C_5H_7O_2)_2 \bullet xH_2O$ F.W. 261.76

Assay (as anhydrous) 85% min.

CAS # 13395-16-9 DOT NR

31531 100 G



CUPRIC BROMIDE, REAGENT ITEM 900

$CuBr_2$ F.W. 223.36

Assay 99%
Chloride 0.3%
Iron 0.005%
Insoluble in dilute HBr 0.01%
Sulfate 0.01%

CAS # 7789-45-9 DOT 8/II NFPA # 2-0-1

31551 100 G
31552 500 G
31553 2.5 KG

CUPRIC CARBONATE, BASIC ITEM 3618

$Cu_2(OH)_2CO_3$ F.W. 221.10

Copper content 55% min.

CAS # 12069-69-1 DOT NR

31571 100 G
31572 500 G
31573 2.5 KG
31575 50 KG

CUPRIC CHLORIDE, ANHYDROUS ITEM 3614

$CuCl_2$ F.W. 134.45

Assay (Volhard method) 97% min.

CAS # 7447-39-4 DOT 8/III NFPA # 2-0-1

31581 50 G
31582 250 G
31583 1 KG

CUPRIC CHLORIDE, DIHYDRATE, 99.999% ITEM A2214

$CuCl_2 \bullet 2H_2O$ F.W. 170.48

Assay (metals basis) 99.999% min

CAS # 10125-13-0 DOT 8/III

31612 5 G
31611 25 G

CUPRIC CHLORIDE, DIHYDRATE, REAGENT (ACS) ITEM 603

$CuCl_2 \bullet 2H_2O$ F.W. 170.48

Assay 99.0% min.
Sulfate 0.005%
Iron 0.005%
Sodium 0.02%
Calcium 0.005%
Insoluble 0.01%
Nitrate 0.015%
Nickel 0.01%
Potassium 0.01%

CAS # 10125-13-0 DOT 8/III NFPA # 2-0-1

31607 100 G
31601 500 G
31602 2.5 KG
31603 10 KG
31604 50 KG
31605 136 KG
31608 544 KG
31609 1088 KG

CUPRIC CHLORIDE, DIHYDRATE ITEM 3615

$CuCl_2 \bullet 2H_2O$ F.W. 170.48

Assay 97%

CAS # 10125-13-0 DOT 8/III NFPA # 2-0-1

31591 100 G
31592 500 G
31593 2.5 KG

CUPRIC FLUORIDE, 99.5% — ITEM A2238

CuF_2 F.W. 101.54

Assay (metals basis) 99.5% min.

CAS # 7789-19-7 DOT 8/II

31631 10 G

CUPRIC GLUCONATE — ITEM 5272

Powder

$Ca(C_6H_{11}O_7)_2$ F.W. 453.85

Assay 98.0 min. Chloride 0.07%
Lead 10 ppm

CAS # 527-09-3

Please For Sizes

CUPRIC HYDROXIDE, STABILIZED, TECHNICAL — ITEM 3617

$Cu(OH)_2$ F.W. 97.56

Assay 95% min.

CAS # 20427-59-2 DOT NR

31651 50 G
31652 250 G
31653 1 KG

CUPRIC MOLYBDATE — ITEM A2256

$3CuMoO_4 \bullet Cu(OH)_2 \bullet nH_2O$

CAS # 108844-49-1 DOT NR

31661 25 G

CUPRIC NITRATE, HYDRATE, REAGENT (ACS) — ITEM 901

$Cu(NO_3)_2 \bullet 2\text{-}1/2H_2O$ F.W. 232.59

Assay 98.0-102.0%
Chloride 0.002%
Iron 0.005%
Sodium 0.01%
Calcium 0.005%
Insoluble 0.01%
Sulfate 0.01%
Nickel 0.01%
Potassium 0.005%
Lead 0.001%

CAS # 19004-19-4 DOT 5.1/III NFPA # 1-0-3

31706 100 G
31701 500 G
31702 2.5 KG
31703 10 KG
31704 50 KG
31705 100 KG
31709 500 KG

CUPRIC OXALATE, HEMIHYDRATE — ITEM A2268

$CuC_2O_4 \bullet 1/2H_2O$ F.W. 160.58

Assay 98.0% min. Insoluble (in NH4OH) 0.05%

CAS # 5893-66-3 DOT NR

31731 100 G
31732 500 G

CUPRIC OXIDE, 99.9998% — ITEM 5092

Copper (II) Oxide

CuO F.W. 79.55

Assay (metals basis) 99.9998% min.

CAS # 1317-38-0 DOT NR NFPA # 2-0-0

87881 5 G
87882 25 G
87883 100 G

CUPRIC OXIDE, 99.999% — ITEM A2277

CuO F.W. 79.55

CAS # 1317-38-0 DOT NR NFPA # 2-0-0

31761 25 G

CUPRIC OXIDE, REAGENT (ACS) — ITEM 902

Powder

CuO F.W. 79.55

Assay 99.0% min.
Carbon compounds (as C) 0.01%
Nitrogen compounds (as N) 0.002%
Free alkali-pass test
Potassium 0.02%
Iron 0.05%
Insoluble (in dil HCl) 0.02%
Chloride 0.005%
Sulfate 0.02%
Sodium 0.05%
Calcium 0.01%

CAS # 1317-38-0 DOT NR NFPA # 2-0-0

31751 100 G
31752 500 G
31753 2.5 KG
31754 10 KG

CUPRIC OXIDE, WIRE-FORM, REAGENT (ACS) — ITEM 9021

CuO F.W. 79.55

Carbon cmpds (C) 0.002%
Sulfate 0.012%
Nitrogen cmpds (N) 0.002%

CAS # 1317-38-0 DOT NR

31741 100 G
31742 500 G

C

CUPRIC OXIDE, POWDER — ITEM 3611

Typically <5 micron

CuO F.W. 79.55

Assay 98%

CAS # 1317-38-0 DOT NR

31771	100 G
31772	500 G
31773	2.5 KG

CUPRIC PERCHLORATE, DEHYDRATED, REAGENT — ITEM 3794

Approximates tetrahydrate formulation; ca 20% H2O. Reduced-moisture salt to promote synthetic organic reactions, Bartoli, et al., J Org. Chem. (2003), 4611.

$Cu(ClO_4)_2 \bullet 4H_2O$ F.W. 334.51

Copper content 19.0 - 22.0%
Chloride 0.01%
pH of 5% solution 4-7
Insoluble matter 0.01%
Sulfate 0.005%

CAS # 13770-18-8 DOT 5.1/II

10791	25 G
10792	100 G
10793	500 G

CUPRIC PERCHLORATE, HYDRATED, REAGENT — ITEM 38

$Cu(ClO_4)_2 \bullet 6H_2O$ F.W. 370.55

Assay 98% min.
Chloride 0.01%
pH of 5% solution 4.0-7.0
Insoluble 0.01%
Sulfate 0.005%

CAS # 10294-46-9 DOT 5.1/II NFPA # 1-0-1

31801	100 G
31802	500 G
31803	2.5 KG
31804	10 KG
31805	50 KG

CUPRIC PROPIONATE — ITEM 9492

Not on the TSCA inventory.

$Cu(OOCCH_2CH_3)_2$ F.W. 209.69

Assay 90% min.

CAS # 3112-74-1 DOT NR

Please For Sizes

CUPRIC PYROPHOSPHATE, TRIHYDRATE — ITEM 3665

$Cu_2P_2O_7 \bullet 3H_2O$ F.W. 355.08

Copper content - 33-36%

CAS # 304671-71-4 DOT NR

31781	100 G
31782	500 G
31783	2.5 KG

CUPRIC SULFATE, ANHYDROUS, REAGENT — ITEM 903

$CuSO_4$ F.W. 159.61

Assay 98%
Chloride 0.002%
Nickel 0.005%
Potassium 0.02%
Loss on drying (105C) 1%
Insoluble matter 0.01%
Iron 0.005%
Calcium 0.01%
Sodium 0.05%

CAS # 7758-98-7 DOT 9/III NFPA # 2-0-0

31993	100 G
31991	500 G
31992	2.5 KG

CUPRIC SULFATE, PENTAHYDRATE, 99.998% — ITEM A2304

$CuSO_4 \bullet 5H_2O$ F.W. 249.68

Assay (metals basis) 99.998% min. Copper content 24.9-26.0%

CAS # 7758-99-8 DOT NR NFPA # 2-0-0

32011	25 G
32012	100 G

CUPRIC SULFATE, PENTAHYDRATE, REAGENT (ACS) — ITEM 548

Fine crystal

$CuSO_4 \bullet 5H_2O$ F.W. 249.68

Assay 98.0-102.0%
Chloride 0.001%
Nickel 0.005%
Calcium 0.005%
Sodium 0.02%
Insoluble 0.005%
Nitrogen (as N) 0.002%
Iron 0.003%
Potassium 0.01%

CAS # 7758-99-8 DOT 9/III NFPA # 2-0-0

32000	100 G
32001	500 G
32002	2.5 KG
32003	10 KG
32004	50 KG

CUPRIC SULFATE, PENTAHYDRATE, TECHNICAL — ITEM 3559

$CuSO_4 \bullet 5H_2O$ F.W. 249.68

Assay 95%

CAS # 7758-99-8 DOT 9/III NFPA # 2-0-0

32021	500 G
32022	2.5 KG
32023	10 KG

CUPRIC SULFATE SOLUTION, 0.01 M — ITEM 2054

$CuSO_4 \bullet 5H_2O$ F.W. 249.68

Concentration 0.0100 ± 0.001 M

CAS # 7758-99-8 DOT NR NFPA # 1-0-0

24531	4 L

Specific Gravity 1.000

CUPRIC SULFATE SOLUTION, 5% W/V — ITEM 2053

Reagent Grade

$CuSO_4 \bullet 5H_2O$ F.W. 249.68

Concentration 5.0 ± 0.5%

CAS # 7758-99-8 DOT NR NFPA # 1-0-0

24521	4 L

Specific Gravity 1.050

CUPRIC TRIFLATE

See Cupric Trifluoromethanesulfonate, 98%

CUPRIC TRIFLUOROMETHANESULFONATE, 98% — ITEM 3524

Not on the TSCA inventory

$Cu(CF_3SO_3)_2$ F.W. 361.68

Assay 98% min.

CAS # 34946-82-2 DOT 8/II

32061	5 G
32062	25 G

CUPRIC TUNGSTATE, 99% — ITEM A2322

$CuWO_4$ F.W. 311.40

CAS # 13587-35-4 DOT NR

32071	50 G

CUPRIC VANADATE, 99.5% — ITEM 1396

$Cu(VO_3)_2$ F.W. 261.43

Assay 99.5% min. (metals basis)

CAS # 14958-34-0 DOT 6.1/II

32081	50 G

CUPRIETHYLENEDIAMINE HYDROXIDE

See Cupriethylenediamine Solution, 1M

CUPRIETHYLENEDIAMINE SOLUTION, 1M — ITEM 666

For determination of solution viscosity of pulps.

$Cu(C_2H_8N_2)_2(OH)_2$ F.W. 217.76

Ethylenediamine to copper ratio 2.00 ± 0.04 Copper molarity 1.00 ± 0.02 M

CAS # 14552-35-3 DOT 8/6/II NFPA # 2-0-1

32103	1 L
32104	6 X 1 L
32101	4 L
32105	4 X 4 L

Specific Gravity 1.100

CUPRIETHYLENEDIAMINE SOLUTION, 0.5M — ITEM 6661

For determination of cellulose by viscosity.

$Cu(C_2H_8N_2)_2(OH)_2$ F.W. 217.76

Concentration 0.50 ±0.01 M Ratio En to Cu = 2.00 ± 0.04

CAS # 14552-35-3 DOT 8/6/II

32112	1 L
32113	6 X 1 L
32111	4 L
32114	4 X 4 L

Specific Gravity 1.054

CUPRIZONE

See bis-Cyclohexanone Oxaldihydrazone

CUPROUS BROMIDE, 99.999% — ITEM 5026

Copper (I) Bromide

CuBr F.W. 143.45

Assay (metals basis) 99.999% min. Cu Content 43.4-45.2%

CAS # 7787-70-4 DOT NR

87221	5 G
87222	25 G

CUPROUS CHLORIDE, 99.995% ITEM 5027

Copper (I) Chloride

CuCl F.W. 98.99

Assay (metals basis) 99.995% min

CAS # 7758-89-6 DOT 8/III NFPA # 3-0-1

87231	5 G
87232	25 G
87233	100 G

CUPROUS CHLORIDE, REAGENT (ACS) ITEM 904

CuCl F.W. 98.99

Assay 90.0% min
Sulfate 0.1%
Iron 0.005%
Potassium 0.02%
Insoluble in acid 0.02%
Calcium 0.01%
Sodium 0.05%

CAS # 7758-89-6 DOT 8/III NFPA # 2-0-0

32151	100 G
32152	500 G
32153	2.5 KG
32154	10 KG
32155	50 KG
32156	100 KG
32157	500 KG

CUPROUS IODIDE, 99.999% ITEM 5028

Copper (I) Iodide

CuI F.W. 190.44

Assay (metals basis) 99.999% min.

CAS # 7681-65-4 DOT NR NFPA # 2-0-0

87241	5 G
87242	25 G
87243	100 G

CUPROUS IODIDE ITEM 3613

CuI F.W. 190.44

Assay 98%

CAS # 7681-65-4 DOT NR NFPA # 1-0-0

32131	25 G
32132	100 G
32133	500 G

CUPROUS OXIDE ITEM 3612

Cu_2O F.W. 143.08

Assay 90%

CAS # 1317-39-1 DOT NR

32141	100 G
32142	500 G
32143	2.5 KG

CUPROUS SELENIDE, 99.999% ITEM A2293

Cu_2Se F.W. 206.05

CAS # 20405-64-5 DOT 6.1/II

32171	10 G

CUPROUS SULFIDE ITEM 1398

Nominally -200 mesh powder.

Cu_2S F.W. 159.15

Assay 90 % min.

CAS # 22205-45-4 DOT NR

32161	100 G

CUPROUS TRIFLATE

See Cuprous Trifluoromethanesulfonate Toluene Complex

CUPROUS TRIFLUOROMETHANESULFONATE TOLUENE COMPLEX ITEM 3525

Not on the TSCA inventory

$(CF_3SO_3Cu)_2 \bullet C_6H_5CH_3$ F.W. 517.36

CAS # 48209-28-5 DOT 4.1/II

32211	1 G
32212	5 G

CURCUMIN, REAGENT ITEM 905

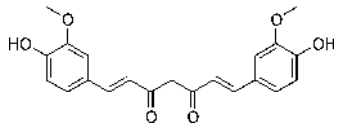
C.I. 75300

$C_{21}H_{20}O_6$ F.W. 368.39

Suitability for determination of boron - Pass test

CAS # 458-37-7 DOT NR NFPA # 1-1-1

32201	10 G
32202	25 G



CYANIDE, 1000 ppm, ION STANDARD ITEM 9030

Concentration 1000 ± 10 ug/mL
Matrix Potassium cyanide in 0.1% sodium hydroxide

DOT 6.1/III

19471	100 ML
19472	500 ML

2-CYANOPYRIDINE, 99% — ITEM 2732

2-Pyridinecarbonitrile

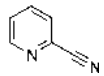
C_5H_4NCN F.W. 104.11

Assay (GC-FID), 98.5% min — Appearance - White to brown/red solid

CAS # 100-70-9 DOT NR

32231	100 G
32232	500 G

Specific Gravity 1.081



CYANURIC ACID, 98% — ITEM 906

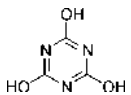
Convenient lab source for HCN gas.

$C_3N_3(OH)_3$ F.W. 129.08

Assay (Acid/base titration), 97.5% - 102.5% — Appearance - White to off-white solid

CAS # 108-80-5 DOT 8/II

32251	100 G
32252	500 G
32253	2.5 KG

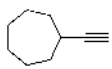


CYCLOHEPTYLACETYLENE — ITEM 3815

Not on the TSCA inventory.

$C_7H_{13}C{\equiv}CH$ F.W. 122.19

Please For Sizes



CYCLOHEPTYLBROMIDE — ITEM 3816

$C_7H_{13}Br$ F.W. 177.09

CAS # 2404-35-5

Please For Sizes

1,4-CYCLOHEXADIENE, 97% — ITEM 3389

Stablized with BHT Approximately 10 ppm stabilizer

C_6H_8 F.W. 80.13

Assay (GC-FID), 96.5% min — Identification by GC/MS - Conforms
Stabilizer (BHT), Confirm presence — Color - Colorless to faint yellow
Clarity / Form - Clear, liquid

CAS # 628-41-1 DOT 3/II

32321	25 G
32322	100 G
32323	1.5 KG
32324	15 KG

Specific Gravity 0.847

CYCLOHEXANE, VERITAS® ULTIMATE — ITEM 5564

C_6H_{12} F.W. 84.16

Assay 99.5% — ECD responsive substances 10 pg/ml
Residue after evaporation 0.0001% — Color (APHA) 10 max
Fluorescence (as quinine base) 500 ppt — UV cut-off 200 nm
UV at 210 nm 0.6 max — UV at 230 nm 0.2 max
UV at 240 nm 0.05 max — UV at 254 nm 0.01 max
Water 0.01%

CAS # 110-82-7 DOT 3/II NFPA # 1-3-0

18011	4 L
18012	4 X 4 L

Specific Gravity 0.778

CYCLOHEXANE, DISTILLED IN GLASS — ITEM 1235

Suitable for liquid chromatography, gas chromatography and spectrophotometry. Meets ACS specifications.

C_6H_{12} F.W. 84.16

Assay 99.0% min. — Residue after evaporation 0.0003%
Water 0.01%

CAS # 110-82-7 DOT 3/II NFPA # 1-3-0

32283	1 L
32284	6 X 1 L
32281	4 L
32282	4 X 4 L

Specific Gravity 0.778

C

CYCLOHEXANE, HPLC — ITEM 2495

Also meets ACS specifications

C_6H_{12} F.W. 84.16

Assay (GC) 99.0% min.
UV absorbance at 210 nm 0.67
UV absorbance at 250 nm 0.02
Appearance - Clear
Water 0.01%
UV Absorbance at 205 nm 1.00
UV absorbance at 220 nm 0.50
Substances darkened by H2SO4 - Pass Test
Residue after evaporation 0.001%
Color (APHA) 10 max

CAS # 110-82-7 DOT 3/II NFPA # 1-3-0

32261	1 L
32262	6 X 1 L
32263	4 L
32264	4 X 4 L

Specific Gravity 0.778

CYCLOHEXANE, REAGENT (ACS) — ITEM 907

C_6H_{12} F.W. 84.16

Assay (GLC) 99.0% min
Color (APHA) 10 max
Substances darkened by H2SO4 - Pass Test
Appearance Clear
Residue after evaporation 0.002%
Water 0.02%

CAS # 110-82-7 DOT 3/II NFPA # 1-3-0

32291	500 ML
32294	6 X 500 ML
32292	4 L
32293	4 X 4 L

Specific Gravity 0.778

CYCLOHEXANE/ISOPROPYL ALCOHOL, AZEOTROPIC SOLUTION — ITEM 2197

Identification by GC/MS - Conforms
Residue after evaporation, 0.001% max
Clarity / Form - Clear, liquid
Density at 25 C, 0.771 g/ml ± 0.005
Color - Colorless

DOT 3/II NFPA # 1-3-0

32276	2.5 L
32277	6 X 2.5 L
32278	56 L
32272	204 L

Specific Gravity 0.778

1,2-CYCLOHEXANEDIAMINETETRAACETIC ACID, LOW SODIUM (CDTA) — ITEM 2418

$C_{14}H_{22}N_2O_8 \bullet H_2O$ F.W. 364.36

Assay 97.5-100.5%
Heavy metals (as Pb) 0.001%
Insoluble in dil. NaOH 0.01%
Residue after ignition 0.2%
Iron 0.005%
Sodium 1 ppm

CAS # 125572-95-4 DOT NR NFPA # 1-0-0

32311	25 G
32312	100 G
32313	500 G

1,2-CYCLOHEXANEDIAMINETETRAACETIC ACID, REAGENT (ACS) — ITEM 688

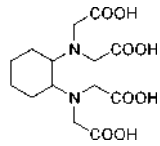
CDTA

$C_{14}H_{22}N_2O_8 \bullet H_2O$ F.W. 364.36

Assay 97.5-100.5%
Heavy metals (as Pb) 0.001%
Insoluble in dil. NaOH 0.01%
Residue after ignition 0.2%
Iron 0.005%

CAS # 125572-95-4 DOT NR NFPA # 1-0-0

32306	25 G
32301	100 G
32302	500 G
32303	2.5 KG
32304	10 KG



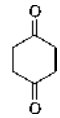
1,4-CYCLOHEXANEDIONE, 98% — ITEM 5299

$C_6H_8O_2$ F.W. 112.13

Assay (GC-FID) - 97.5% min.
Appearance - Yellow to Tan Flake

CAS # 637-88-7 DOT NR

14981	25 G
14982	100 G



1,2-CYCLOHEXANEDIONEDIOXIME — ITEM 277

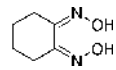
Nioxime. Reagent for nickel and palladium.

$C_6H_8(=NOH)_2$ F.W. 142.16

M.p. 188-190 C

CAS # 492-99-9 DOT NR NFPA # 1-1-1

32402	5 G
32403	25 G



CYCLOHEXANONE, REAGENT (ACS) ITEM 908

$C_6H_{10}O$ F.W. 98.14

Assay (GLC) 99.0% min
Water 0.05%
Residue after evaporation 0.05%
Color (APHA) 10 max

CAS # 108-94-1 DOT 3/III NFPA # 2-2-1

32501 500 ML
32502 4 L

Specific Gravity 0.949

bis-CYCLOHEXANONE OXALDIHYDRAZONE, 98% ITEM 117

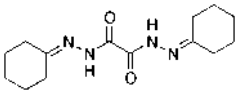
Cuprizone. Super sensitive reagent for the spectrophotometric determination of copper(II).

C_6H_{10}=NNHC(O)C(O)NHN=C_6H_{10} F.W. 278.36

Assay (Nonaqueous titration), 97.5%-102.5%
Suitability as indicator - Pass test
Form - Crystal or powder
Sensitivity to Copper - Pass test
Color - White to off-white

CAS # 370-81-0 DOT NR

16202 25 G
16203 100 G
16206 500 G



1-CYCLOHEXENYLOXYTRIMETHYLSILANE, 98% ITEM 3064

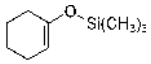
$(CH_3)_3SiOC_6H_9$ F.W. 170.33

Assay 98% min.

CAS # 6651-36-1

80621 10 G
80622 50 G

Specific Gravity 0.875



CYCLOHEXYLACETYLENE, 95% ITEM 3441

Not on the TSCA inventory.

$C_6H_{11}C{\equiv}CH$ F.W. 108.18

Assay (GC-FID), 94% min
Color - Colorless
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 931-48-6 DOT 3/II

32511 25 G
32512 100 G

Specific Gravity 0.840

(1,2-CYCLOHEXYLENEDINITRILO) TETRAACETIC ACID

See 1,2-Cyclohexanediaminetetraacetic Acid

2-CYCLOHEXYL-1-IODOETHANE

See 2-Iodoethylcyclohexane, 98%

CYCLOHEXYLIODOMETHANE

See Iodomethylcyclohexane

CYCLOHEXYL MAGNESIUM CHLORIDE, 1M in THF ITEM 5494

1M Grignard in THF

$C_6H_{11}MgCl$ F.W. 142.92

Active concentration, 0.90 M - 1.10 M
Density (g/ml), Report

CAS # 931-51-1 DOT 4.3/3/II NFPA # 3-3-3

Please For Sizes

Specific Gravity 0.937

CYCLOHEXYL METHYL KETONE ITEM 5655

Acetyl Cyclohexane

$C_8H_{14}O$ F.W. 126.20

Assay(GC-FID), 97.5% min.

CAS # 823-76-7 DOT NR

Please For Sizes

Specific Gravity 0.917

3-CYCLOHEXYL-1-PROPENE, 97% ITEM 5194

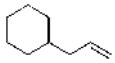
Not on the TSCA inventory

$C_6H_{11}CH_2CH=CH_2$ F.W. 124.23

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 2114-42-3 DOT 3/II

10811	1 G
10812	5 G
10813	25 G



C

1-CYCLOHEXYL-1-PROPYNE ITEM 3819

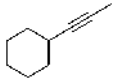
Not on the TSCA inventory.

$C_6H_{11}C{\equiv}CCH_3$ F.W. 122.21

CAS # 18736-95-3 DOT 3/III

Please For Sizes

Specific Gravity 0.881



3-CYCLOHEXYL-1-PROPYNE, 97% ITEM 3066

Not on the TSCA inventory.

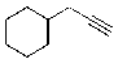
$C_6H_{11}CH_2C{\equiv}CH$ F.W. 122.21

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 17715-00-3 DOT 9/III

80641	5 G
80642	25 G

Specific Gravity 0.845



1,5-CYCLOOCTADIENE, 98+% ITEM 5397

C_8H_{12} F.W. 108.18

Assay (GC-FID), 98.0% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 111-78-4 DOT 3/III

15781	100 ML
15782	500 ML

Specific Gravity 0.882

CYCLOPENTANE, TECHNICAL ITEM 3561

Purity greater than 75% cyclopentane: 98+% cyclopentane and saturated C5 hydrocarbons

C_5H_{10} F.W. 70.14

Assay (GC-FID), 75.0% min Appearance - Clear, colorless liquid

CAS # 287-92-3 DOT 3/II NFPA # 1-3-0

32531	1 L
32532	6 X 1 L
32533	4 L
32534	4 X 4 L
32535	20 L

Specific Gravity 0.745

CYCLOPENTANONE, 99% ITEM 2734

C_5H_8O F.W. 84.12

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 120-92-3 DOT 3/III

32571	50 ML
32572	250 ML
32573	1 L

Specific Gravity 0.951

CYCLOPENTYLACETYLENE, 96% ITEM 5319

Not on the TSCA inventory.

$C_5H_9C{\equiv}CH$ F.W. 94.16

Assay (GC-FID), 95.0% min Inhibitor (BHT), Confirm presence
Identification by GC/MS - Conforms Appearance - Clear, colorless to yellow liquid

CAS # 930-51-8 DOT 3/III

Please For Sizes

Specific Gravity 0.650

CYCLOPENTYLACETYLENE, 90+% ITEM 3442

Not on the TSCA inventory.

$C_5H_9C{\equiv}CH$ F.W. 94.16

Assay (GC-FID), 90.0% min Inhibitor (BHT), Confirm presence
Identification by GC/MS - Conforms Appearance - Clear, colorless to yellow liquid

CAS # 930-51-8 DOT 3/III

32540	5 G
32541	25 G
32542	100 G

Specific Gravity 0.650

CYCLOPENTYLBROMIDE, 98% ITEM 3067

Bromocyclopentane

C_5H_9Br F.W. 149.04

Assay (GC-FID), 97.5% min
H2O (KF), 0.1% max
Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 137-43-9 DOT 3/III

80651	100 G
80652	500 G

Specific Gravity 1.390

3-CYCLOPENTYL-1-PROPENE

See Allylcyclopentane, 98%

3-CYCLOPENTYL-1-PROPYNE, 98% ITEM 3433

Not on the TSCA inventory.

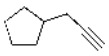
$C_5H_9CH_2C{\equiv}CH$ F.W. 108.18

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 116279-08-4 DOT 3/II

32561	5 G
32562	25 G
32563	100 G
32564	500 G

Specific Gravity 0.827



CYCLOPROPYL ACETYLENE, 98% ITEM 3397

Not on the TSCA inventory.

$C_3H_5C{\equiv}CH$ F.W. 66.10

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless to yellow liquid
Identification by GC/MS - Conforms

CAS # 6746-94-7 DOT 3/II

89551	10 G
89552	50 G
89553	250 G
89554	1.5 KG

Specific Gravity 0.780

CYCLOPROPYL BROMIDE, 98% ITEM 3463

C_3H_5Br F.W. 120.98

Assay (GC-FID), 97.5% min
H2O (KF), 0.05% max
Clarity / Form - Clear, liquid
Identification by GC/MS - Conforms
Color - Colorless to yellow

CAS # 4333-56-6 DOT 3/II

32581	25 G
32582	100 G
32583	1 KG
32584	3.5 KG
32585	25 KG

Specific Gravity 1.512

CYCLOPROPYLMAGNESIUM BROMIDE, 0.75 M, in TETRAHYDROFURAN ITEM 5264

C_3H_5MgBr F.W. 145.28

Concentration 0.75 ± 0.10 M
Density - report

CAS # 23719-80-4 DOT 4.3/3/I NFPA # 3-3-3

Please For Sizes

Specific Gravity 0.960

CYCLOPROPYL(TRIMETHYLSILYL)ACETYLENE

See Trimethylsilylethynylcyclopropane, 96%

DARCO

See Carbon, Activated, Darco G-60

DDB

See 5-Sulfo-4'-Diethylamino-2,2'-Dihydroxyazobenzene

1,9-DECADIENE, 98% ITEM 3443

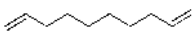
$H_2C{=}CH(CH_2)_6CH{=}CH_2$ F.W. 138.25

Assay (GC-FID), 97.5% min
Color - Clear to light yellow liquid

CAS # 1647-16-1

33131	10 G
33132	50 G

Specific Gravity 0.750



D

1,5-DECADIYNE, 96% — ITEM 3071

$CH_3(CH_2)_3C{\equiv}C(CH_2)_2C{\equiv}CH$ F.W. 134.22

Assay 96% min.

CAS # 53963-03-4 DOT 9/III

80691	10 G

1,9-DECADIYNE, 97% — ITEM 3072

$HC{\equiv}C(CH_2)_6C{\equiv}CH$ F.W. 134.22

Assay (GC-FID), 96.5% min
Color, 50 APHA max
Identification by GC/MS - Conforms
Appearance, Clear liquid

CAS # 1720-38-3 DOT 9/III

80701	10 G
80702	50 G
80703	250 G
80704	1 KG

Specific Gravity 0.816

4,6-DECADIYNE — ITEM 3823

Not on the TSCA inventory.

$CH_3(CH_2)_2C{\equiv}CC{\equiv}C(CH_2)_2CH_3$ F.W. 134.22

CAS # 16387-71-6 DOT NR

Please For Sizes

4,6-DECADIYN-1,10-DIOL, 97% — ITEM 3069

Requires refrigeration. Not on the TSCA inventory.

$HO(CH_2)_3C{\equiv}CC{\equiv}C(CH_2)_3OH$ F.W. 166.21

Assay (GC-FID), 96.5% min
Appearance - Off-white to dark blue solid
Identification by GC/MS - Conforms
Insolubles / Polymer, 1.5% max

CAS # 70283-74-8 DOT NR

80671	5 G
80672	25 G
80673	100 G
80674	500 G
80675	5 KG

DECAHYDRONAPHTHALENE, 98% — ITEM 3516

Mixture of cis and trans isomers

$C_{10}H_{18}$ F.W. 138.25

Assay (GC-FID, Total of cis/trans), 97.5% min
Appearance - Clear, colorless liquid

CAS # 91-17-8 DOT 3/III

33121	1 L
33123	4 L
33125	20 L

Specific Gravity 0.898

trans-DECAHYDRONAPHTHALENE, 99% — ITEM 3486

$C_{10}H_{18}$ F.W. 138.25

Assay (GC-FID), 98.5% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 493-02-7 DOT 3/III

Please For Sizes

Specific Gravity 0.870

DECALIN

See Decahydronaphthalene, 98%

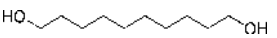
1,10-DECANEDIOL, 98% — ITEM 3824

$HO(CH_2)_{10}OH$ F.W. 174.28

Assay (GC-FID), 97.5% min
Melting point, Report range
Identification by GC/MS - Conforms
Appearance - White flakes/powder

CAS # 112-47-0 DOT NR

16813	1 KG



1-DECANOL, 99% — ITEM 3482

$CH_3(CH_2)_9OH$ F.W. 158.29

Assay (GC-FID), 98.5% min
Water (by KF titration) 1.0% max
Clarity / Form - Clear, liquid
Identification by GC/MS - Conforms
Color - Colorless

CAS # 112-30-1 DOT NR

10081	1 L
10082	2.5 L
10083	4 L

Specific Gravity 0.829

cis-5-DECENE, 96% — ITEM 3457

Not on the TSCA inventory.

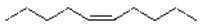
$CH_3(CH_2)_3CH=CH(CH_2)_3CH_3$ F.W. 140.27

Assay (GC-FID), 95.0% min
Color - Colorless
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 7433-78-5 DOT 3/III

33111	5 G
33112	25 G

Specific Gravity 0.745



trans-5-DECENE, 97% — ITEM 3073

Not on the TSCA inventory.

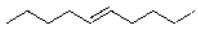
$CH_3(CH_2)_3CH=CH(CH_2)_3CH_3$ F.W. 140.27

Assay (GC-FID), 96.5% min
Identification by GC/MS - Conforms

CAS # 7433-56-9 DOT 3/III

80711	5 G
80712	25 G
80714	500 G

Specific Gravity 0.740



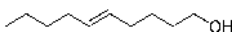
trans-5-DECEN-1-OL, 96% — ITEM 3074

$CH_3(CH_2)_3CH=CH(CH_2)_4OH$ F.W. 156.26

Assay 96% min.

CAS # 56578-18-8 DOT 3/III

80721	1 G
80722	5 G



DECYL ALCOHOL

See 1-Decanol, 99%

DECYL BROMIDE

See 1-Bromodecane, 98%

1-DECYNE, 98% — ITEM 3075

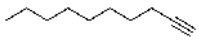
$CH_3(CH_2)_7C\equiv CH$ F.W. 138.25

Assay (GC-FID), 97.5% min
Color, 50 APHA max
Identification by GC/MS - Conforms
Appearance, Clear liquid

CAS # 764-93-2 DOT 3/III

80731	25 G
80732	100 G
80733	500 G
80734	2.5 KG
80735	14 KG

Specific Gravity 0.765



2-DECYNE, 96% — ITEM 3076

Not on the TSCA inventory.

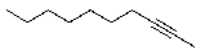
$CH_3(CH_2)_6C\equiv CCH_3$ F.W. 138.25

Assay (GC-FID), 95.0% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 2384-70-5 DOT 3/III

80741	5 G
80742	25 G

Specific Gravity 0.760



3-DECYNE, 98% — ITEM 3825

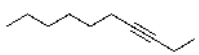
Not on the TSCA inventory.

$CH_3CH_2C\equiv C(CH_2)_5CH_3$ F.W. 138.25

Assay 98%

CAS # 2384-85-2

Please For Sizes



D

4-DECYNE, 98% — ITEM 3826

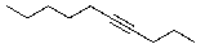
Not on the TSCA inventory.

$CH_3(CH_2)_2C{\equiv}C(CH_2)_4CH_3$ F.W. 138.25

Assay 98%

CAS # 2384-86-3 DOT 3/III

Please For Sizes



5-DECYNE, 98% — ITEM 3077

Not on the TSCA inventory.

$CH_3(CH_2)_3C{\equiv}C(CH_2)_3CH_3$ F.W. 138.25

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms

CAS # 1942-46-7 DOT 3/III

80751 25 G
80752 100 G
80753 1 KG

Specific Gravity 0.769

2-DECYN-1-OL, 97% — ITEM 3078

Not on the TSCA inventory.

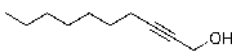
$CH_3(CH_2)_6C{\equiv}CCH_2OH$ F.W. 154.25

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
H2O (KF), 0.5% max

CAS # 4117-14-0 DOT NR

80761 10 G
80762 50 G

Specific Gravity 0.853



3-DECYN-1-OL, 98% — ITEM 3079

Not on the TSCA inventory.

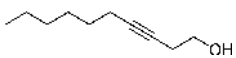
$CH_3(CH_2)_5C{\equiv}C(CH_2)_2OH$ F.W. 154.25

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms

CAS # 51721-39-2 DOT 9/III

80771 5 G
80772 25 G

Specific Gravity 0.876



5-DECYN-1-OL, 96% — ITEM 3080

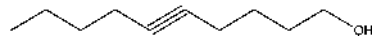
$CH_3(CH_2)_3C{\equiv}C(CH_2)_4OH$ F.W. 154.25

Assay 96% min.

CAS # 68274-97-5 DOT 9/III

80781 5 G
80782 25 G

Specific Gravity 0.877



DEHYDRATING AGENTS, DESICCANTS

See Calcium Chloride, Anhydrous
Magnesium Perchlorate, Anhydrous
Barium Perchlorate, Anhydrous
Phosphorus Pentoxide
Sodium Sulfate, Anhydrous
Calcium Sulfate Anhydrous
Silica Gel Beads,6-14 Mesh
Molecular Sieve, 4A
Drierite, 10-20 Mesh

DENATURED ALCOHOL

See Alcohol Reagent, Anhydrous

DEPP

See N,N'-Diethylpiperazine, 98%

DEXTROSE

See D-Glucose, Anhydrous

DIACETONE ALCOHOL

See 4-Hydroxy-4-Methyl-2-Pentanone, 99%

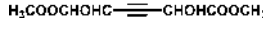
1,4-DIACETOXY-2-BUTYNE — ITEM 3439

$CH_3CO_2CH_2C{\equiv}CCH_2O_2CCH_3$ F.W. 170.16

CAS # 1573-17-7 DOT NR

Please For Sizes

Specific Gravity 1.125



1,2-DIAMINOETHANE

See Ethylenediamine

1,3-DIAMINOPROPANE, 99% ITEM 4847

Propylenediamine

$H_2N(CH_2)_3NH_2$ F.W. 74.13

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 109-76-2 DOT 8/6.1/II

15791	100 ML
15792	500 ML

Specific Gravity 0.888

cis-DIAMMINEPLATINUM (II) CHLORIDE, 99.999% ITEM 5062

cis-Platin

$Pt(NH_3)_2Cl_2$ F.W. 300.06

Assay (metals basis) 99.999% Platinum content (typical) 65%

CAS # 15663-27-1 DOT 6.1/II

87581	100 MG
87582	1 G
87583	5 G

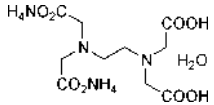
DIAMMONIUM DIHYDROGEN ETHYLENEDIAMINETETRAACETATE, HYDRATE ITEM 2273

$C_{10}H_{21}N_4O_8 \bullet xH_2O$ F.W. 326.31

Assay 97% min.(dry basis) Insoluble 0.005%

CAS # 7379-26-2 DOT NR

32821	100 G
32822	500 G



DIAMMONIUM HYDROGEN PHOSPHATE

See Ammonium Phosphate, Dibasic

DIATOMACEOUS EARTH, FLUX-CALCINED

See Filter Aid, Dicalite 4200; Filter Aid, Celite 545; Filter Aid, Celatom FW-14

DIAZEM PEPTICA C18-A, 200 A, 10 MICRON, MODIFIED SILICA ITEM 2947

Polymeric, high pH stability, hydrophobic end-capping, high peptide retentivity. Please regading other Diazem products that may be available.

DOT NR

89791	10 G
89792	50 G
89793	250 G
89794	1 KG

1,3-DIBROMOBENZENE, 97% ITEM 2735

$C_6H_4Br_2$ F.W. 235.92

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Color - Colorless to yellow Clarity / Form - Clear, liquid

CAS # 108-36-1 DOT NR NFPA # 2-1-0

32981	10 G
32982	100 G

Specific Gravity 1.952

1,4-DIBROMOBENZENE, 98% ITEM 4477

p-Dibromobenzene.

$C_6H_4Br_2$ F.W. 235.91

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - White to yellow solid

CAS # 106-37-6 DOT NR

15811	100 G
15812	500 G
15813	2 KG

Specific Gravity 1.841

1,4-DIBROMOBUTANE, 99% ITEM 2736

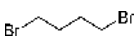
$Br(CH_2)_4Br$ F.W. 215.93

Assay 99% min.

CAS # 110-52-1 DOT 6.1/III

32991	100 G
32992	500 G

Specific Gravity 1.808



D

1,10-DIBROMODECANE ITEM 3828

$Br(CH_2)_{10}Br$ F.W. 300.09

CAS # 4101-68-2

Please For Sizes

1,6-DIBROMOHEXANE, 98% ITEM 2976

Hexamethylene Dibromide

$Br(CH_2)_6Br$ F.W. 243.98

Assay (GC-FID), 97.5% min
Color - Colorless to yellow
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 629-03-8 DOT 9/III

32962	100 G
32963	500 G

Specific Gravity 1.586

1,5-DIBROMOPENTANE, 97% ITEM 3562

$Br(CH_2)_5Br$ F.W. 229.95

Assay (GC-FID), 96.5% min
Appearance - Clear, colorless to yellow liquid
Identification by GC/MS - Conforms

CAS # 111-24-0

33142	100 G
33143	500 G
33144	3.5 KG

Specific Gravity 1.668

3-DIBUTYLAMINO-1-PROPYNE, 98% ITEM 3082

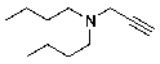
Not on the TSCA inventory.

$HC{\equiv}CCH_2N(C_4H_9)_2$ F.W. 167.30

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless to yellow liquid
Identification by GC/MS - Conforms

CAS # 6336-58-9 DOT 9/III

80801	5 G
80802	25 G



2,6-DI-tert-BUTYL-4-METHYLPHENOL, 99% ITEM 3750

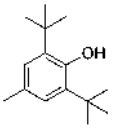
BHT Preservative

$[(CH_3)_3C]_2C_6H_2(CH_3)OH$ F.W. 220.36

Assay (GC-FID), 98.5% min
Appearance - White crystal/solid

CAS # 128-37-0 DOT NR

33161	5 G
33162	25 G
33163	100 G



DIBUTYL PHTHALATE, 99% ITEM 5400

$C_6H_4(COO(CH_2)_3CH_3)_2$ F.W. 278.34

Assay (GC-FID), 98.5% min
Identification by GC/MS - Conforms

CAS # 84-74-2 DOT 9/III

15851	100 ML
15852	500 ML
15853	2 L

Specific Gravity 1.043

DICALITE

See Filter Aid, Dicalite 4200

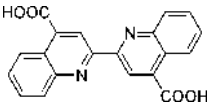
4,4'-DICARBOXY-2,2'-BIQUINOLINE ITEM 381

2,2'-Bicinchoninic Acid

$(HO_2CC_9H_5N)_2$ F.W. 344.33

CAS # 1245-13-2 DOT NR

33202	10 G



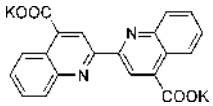
4,4'-DICARBOXY-2,2'-BIQUINOLINE, POTASSIUM SALT — ITEM 770

$(KO_2CC_9H_5N)_2$ F.W. 420.51

Clarity of solution - Pass test
Sensitivity to Copper - Pass test
H2O (KF), 9.0% - 14.0%

CAS # 63451-34-3 DOT NR

33222	10 G
33223	100 G
33224	500 G
33225	2.5 KG



4,4'-DICARBOXY-2,2'-BIQUINOLINE, SODIUM SALT — ITEM 769

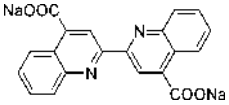
Bicinchonic acid, disodium salt for BCA assay

$(NaO_2CC_9H_5N)_2$ F.W. 388.29

Suitability for protein determination - Conforms
pH of 1% solution - 6.5 to 8.5
Appearance - White to light yellow solid

CAS # 979-88-4 DOT NR

33212	10 G
33213	100 G
33215	500 G
33216	2.5 KG



DICHLOROBIS(TRIPHENYLPHOSPHINE) PALLADIUM (II)

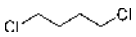
See Triphenylphosphine Palladium Chloride

1,4-DICHLOROBUTANE — ITEM 3833

$Cl(CH_2)_4Cl$ F.W. 127.01

CAS # 110-56-5 DOT 3/III

Please For Sizes



trans-DICHLORODIAMMINEPALLADIUM (II), 99.999% — ITEM 5058

Not on the TSCA inventory.

$Pd(NH_3)_2Cl_2$ F.W. 211.37

Assay (metals basis) 99.999%

CAS # 13782-33-7 DOT NR

87541	1 G
87542	5 G

2,5-DICHLORO-3,6-DIHYDROXY-1,4-BENZOQUINONE

See Chloranilic Acid, 99%

4,4'-DICHLORODIPHENYLACETYLENE, 97% — ITEM 5262

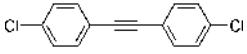
Not on the TSCA inventory.

$ClC_6H_4C{\equiv}CC_6H_4Cl$ F.W. 247.12

Assay (GC-FID), 96.5% min
Identification by GC/MS - Conforms

CAS # 1820-43-6 DOT NR

Please For Sizes



1,2-DICHLOROETHANE, REAGENT (ACS) ITEM 1064

$ClCH_2CH_2Cl$ F.W. 98.96

Assay 99.0% min
Appearance - Clear, colorless liquid
Residue after evaporation 0.002%
Titrable acid 0.0003 meq/g
Water (KF) 0.03%
Color (APHA) 10 max

CAS # 107-06-2 DOT 3/6.1/II NFPA # 3-3-1

33351	500 ML
33352	4 L

Specific Gravity 1.250

D

2',7'-DICHLOROFLUORESCEIN, REAGENT (ACS) ITEM 2395

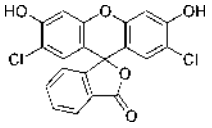
2',7'-Dichloro-3,6-fluorandiol

$C_{20}H_{10}Cl_2O_5$ F.W. 401.20

Appearance - Orange to red-brown powder
Clarity of alcohol solution - passes test
Suitability as adsorption indicator - passes test

CAS # 76-54-0 DOT NR

88161 1 G
88162 5 G



DICHLOROFLUORESCEIN SOLUTION, 1% in REAGENT ALCOHOL ITEM 5552

$C_{20}H_{10}Cl_2O_5$ F.W. 401.20

Clarity of 1+9 dilution in alcohol Passes test
Suitability as adsorption indicator

CAS # 76-54-0 DOT 3/II

24585 100 ML
24586 500 ML

DICHLOROMETHANE, VERITAS® ULTIMATE ITEM 5565

Methylene chloride. Alkene stabilized

CH_2Cl_2 F.W. 84.93

Assay 99.90%
FID responsive substances 5 ug/L
Fluorescence (as quinine base) 500 ppt
UV Cut-off 231 nm max
UV at 240 nm 0.2 AU max
UV at 260 nm 0.01 AU max
Water 0.01% max
ECD responsive substances 3 pg/ml
Residue after evaporation 0.0001%
Titrable acid 0.2 meq/g
UV at 235 nm 0.5 AU max
UV at 250 nm 0.02 AU max
Color (APHA) 10 max

CAS # 75-09-2 DOT 6.1/III NFPA # 2-1-0

18031 4 L
18032 4 X 4 L

Specific Gravity 1.326

DICHLOROMETHANE, DISTILLED IN GLASS ITEM 1236

Methylene Chloride. Suitable for pesticide analysis, gas chromatography, liquid chromatography and ultraviolet spectrophotometry.

CH_2Cl_2 F.W. 84.93

Assay 99.8% min.
Hydrocarbon stabilized (2-methyl-2-butene) ~ 50ppm
Chlorinated hydrocarbon residue 10 pg/ml max.
Residue after evaporation 0.0003%
Water 0.01%

CAS # 75-09-2 DOT 6.1/III NFPA # 2-1-0

33511 4 L
33512 4 X 4 L

Specific Gravity 1.326

DICHLOROMETHANE, HPLC ITEM 2484

Methylene chloride. Also meets ACS Specifications.

CH_2Cl_2 F.W. 84.93

Assay (GLC) 99.9% min.
UV Absorbance at 240 nm 0.20
Residue after Evaporation 2 ppm
Water 0.02%
Color (APHA) 10 max.
UV Absorbance at 235 nm 1.00
UV Absorbance at 250 nm 0.03
Titrable acid 0.0003 meq/g
Free halogens - Pass Test
Hydrocarbon stabilizer - Report

CAS # 75-09-2 DOT 6.1/III NFPA # 2-1-0

33523 4 L
33524 4 X 4 L

Specific Gravity 1.326

DICHLOROMETHANE, REAGENT (ACS) ITEM 909

Methylene Chloride

CH_2Cl_2 F.W. 84.93

Assay (GLC) 99.5% min
Titrable acid 0.0003 meq/g
Free halogens - Pass Test
Hydrocarbon stablizer - about 50 ppm
Residue after evaporation 0.002%
Water 0.02%
Color (APHA) 10 max

CAS # 75-09-2 DOT 6.1/III NFPA # 2-1-0

33501 500 ML
33507 6 X 500 ML
33502 4 L
33504 4 X 4 L
33503 20 L

Specific Gravity 1.326

1,8-DICHLOROOCTANE ITEM 3834

$Cl(CH_2)_8Cl$ F.W. 183.12

CAS # 2162-99-4 DOT NR

Please For Sizes

1,3-DICHLOROPROPANE, 99% ITEM 3836

Trimethylene dichloride

$Cl(CH_2)_3Cl$ F.W. 112.99

Assay (GC-FID), 98.5% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 142-28-9 DOT 3/III NFPA # 2-3-0

17041 5 G

Specific Gravity 1.190

trans-1,3-DICHLOROPROPENE, 96% ITEM 3431

$ClCH_2CH=CHCl$ F.W. 110.97

Assay (GC-FID), 95% min Identification by GC/MS - Conforms

CAS # 10061-02-6 DOT 3/II

33391 5 G
33392 25 G

Specific Gravity 1.220

1,3-DICHLOROTETRAISOPROPYLDISILOXANE, 98% ITEM 3085

Requires refrigeration. Not on the TSCA inventory.

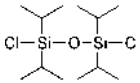
$[(CH_3)_2CH]_2Si(Cl)O(Cl)Si[CH(CH_3)_2]_2$ F.W. 315.43

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 69304-37-6 DOT 8/II

80831 5 G
80832 25 G

Specific Gravity 1.001



4,4'-DICHLOROTOLAN

See 4,4'-Dichlorodiphenylacetylene

DICHROMATE, 1,000 ppm, ION CHROMATOGRAPHY STANDARD SOLUTION ITEM 3760

Concentration (as Cr2O7) 1,000 ± 10 ug/mL Matrix Na2Cr2O7, water

DOT NR

23871 100 ML
23872 500 ML

Specific Gravity 1.000

DIETHANOLAMINE, REAGENT (ACS) ITEM 910

$HN(CH_2CH_2OH)_2$ F.W. 105.14

Assay 98.5% min. Apparent equivalent wt. 104.0-106.0
Color (APHA) 15 max. Residue after ignition 0.005%
Monoethanolamine 1.0% Triethanolamine 1.0%
Water 0.15%

CAS # 111-42-2 DOT 8/III NFPA # 1-1-2

33701 500 ML
33702 4 L

Specific Gravity 1.070

1,1-DIETHOXY-2-BUTYNE

See 2-Butynyl Aldehyde Diethyl Acetal

1,1-DIETHOXY-2-PENTYNE

See 2-Pentynyl Aldehyde Diethyl Acetal

3,3-DIETHOXY-1-PROPYNE

See Propargylaldehyde Diethyl Acetal

1-DIETHYLAMINO-2-BUTYNE, 97% ITEM 3837

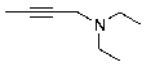
Not on the TSCA inventory.

$CH_3C{\equiv}CCH_2N(C_2H_5)_2$ F.W. 125.22

Assay 97%

CAS # 6323-82-6 DOT 8/3/II

Please For Sizes



4-DIETHYLAMINO-2-BUTYN-1-OL, 98% ITEM 3087

Not on the TSCA inventory.

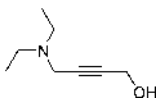
$(C_2H_5)_2NCH_2C{\equiv}CCH_2OH$ F.W. 141.21

Assay 98%

CAS # 10575-25-4 DOT 9/III

80851 10 G
80852 50 G

Specific Gravity 0.948



4-DIETHYLAMINO-2,2'-DIHYDROXYAZOBENZENE-5-SULFONIC ACID

See 5-Sulfo-4'-Diethylamino-2,2'-Dihydroxyazobenzene

1-DIETHYLAMINO-2-PENTYNE, 97% ITEM 3838

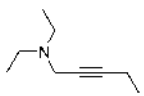
Not on the TSCA inventory.

$CH_3CH_2C{\equiv}CCH_2N(C_2H_5)_2$ F.W. 139.24

Assay 97%

CAS # 73117-10-9 DOT 8/3/II

Please For Sizes



3-DIETHYLAMINO-1-PROPYNE, 98% ITEM 3088

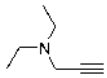
$HC{\equiv}CCH_2N(C_2H_5)_2$ F.W. 111.19

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 4079-68-9 DOT 3/6.1/8/I

80862	5 G
80861	25 G

Specific Gravity 0.804



DIETHYL CARBONATE, 99% ITEM 2738

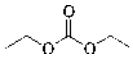
$(CH_3CH_2O)_2CO$ F.W. 118.13

Assay (GC-FID), 98.5% min Appearance - Clear, colorless liquid

CAS # 105-58-8 DOT 3/III

33761	100 ML
33762	500 ML
33763	2 L

Specific Gravity 0.975



DIETHYLENE GLYCOL, 99% ITEM 5403

$HO(CH_2)_2O(CH_2)_2OH$ F.W. 106.12

Assay (GC-FID), 98.5% min H2O (KF), 0.5% max

CAS # 111-46-6 DOT NR

15871	100 G
15872	500 G
15873	2 KG

Specific Gravity 1.118

DIETHYLENE GLYCOL DIETHYL ETHER, HALOGEN FREE ITEM 2346

For use with Organic Halogen Reagent.

$(C_2H_5OCH_2CH_2)_2O$ F.W. 162.23

Halogen 0.1 ppm

CAS # 112-36-7 DOT NR

33781	1 L
33783	4 L
33784	4 X 4 L

Specific Gravity 0.906

DIETHYLENE GLYCOL DIMETHYL ETHER, 99% ITEM 4829

$(CH_3OCH_2CH_2)_2O$ F.W. 134.18

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms

CAS # 111-96-6 DOT 3/III

16512	500 ML
16513	2.5 L
16514	20 L
16515	60 L

Specific Gravity 0.937

DIETHYLENE GLYCOL MONOBUTYL ETHER, 99% ITEM 4772

Butyldiglycol

$CH_3(CH_2)_3OCH_2CH_2OCH_2CH_2OH$ F.W. 162.23

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 112-34-5 DOT NR

16451	500 ML
16452	2.5 L

Specific Gravity 0.967

DIETHYLENE GLYCOL MONOETHYL ETHER, 99% ITEM 5405

Ethyldiglycol

$CH_3CH_2OCH_2CH_2OCH_2CH_2OH$ F.W. 134.17

Assay (GC-FID), 98.5% min

CAS # 111-90-0 DOT NR

15931	500 ML
15932	2.5 L

Specific Gravity 0.999

DIETHYLENE GLYCOL MONOMETHYL ETHER, 98% ITEM 5407

Methyldiglycol

$CH_3OCH_2CH_2OCH_2CH_2OH$ F.W. 120.15

Assay (GC-FID), 97.5% min Appearance - Clear, colorless liquid

CAS # 111-77-3 DOT NR

15951	500 ML
15952	2.5 L

Specific Gravity 1.023

DIETHYLENE OXIDE

See Tetrahydrofuran

DIETHYLENETRIAMINEPENTAACETIC ACID — ITEM 568

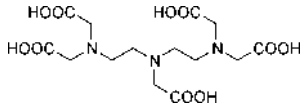
DTPA

$((HOOCCH_2)_2NCH_2CH_2)_2NCH_2COOH$ F.W. 393.35

Assay 98.0% min

CAS # 67-43-6 DOT NR NFPA # 1-1-0

33805	100 G
33801	500 G
33802	2.5 KG
33803	10 KG
33804	50 KG



DIETHYL ETHER

See Ethyl Ether

DIETHYL MALONATE, 98% — ITEM 5284

Malonic acid diethyl ester

$C_7H_{12}O_4$ F.W. 160.17

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 105-53-3 DOT NR

14911	500 G
14912	2.5 KG

Specific Gravity 1.055

N,N'-DIETHYLPIPERAZINE, 98% — ITEM 2359

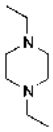
DEPP

$(C_2H_5)_2C_4H_8N_2$ F.W. 142.24

Assay (GC-FID), 97.5% min Appearance - Clear, colorless to yellow liquid

CAS # 6483-50-7 DOT NR

27531	5 G
27532	25 G



m-DIETHYNYLBENZENE, 98% — ITEM 3373

Requires refrigeration. Not on the TSCA inventory.

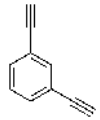
$C_6H_4(C{\equiv}CH)_2$ F.W. 126.15

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Stabilized with BHT - Confirm presence Appearance - Clear, colorless to amber liquid

CAS # 1785-61-1 DOT 3/III

83671	5 G
83672	25 G
83674	500 G

Specific Gravity 0.970



p-DIETHYNYLBENZENE, 98% — ITEM 3385

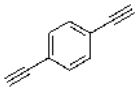
Requires refrigeration. Not on the TSCA inventory.

$C_6H_4(C{\equiv}CH)_2$ F.W. 126.15

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - White to brown solid / crystal

CAS # 935-14-8 DOT NR

83841	5 G
83842	25 G
83843	100 G
83844	500 G



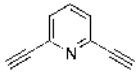
2,6-DIETHYNYLPYRIDINE — ITEM 5293

Not on the TSCA inventory.

$C_5H_3N(C{\equiv}CH)_2$ F.W. 91.11

CAS # 75867-46-8

Please For Sizes



3,3'-DIETHOXY-1-PROPYNE

See Propargylaldehyde Diethyl Acetal

D

4,4'-DIFLUORODIPHENYLACETYLENE, 98% — ITEM 5261

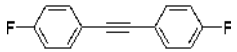
Not on the TSCA inventory.

$FC_6H_4C{\equiv}CC_6H_4F$ F.W. 214.21

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms

CAS # 5216-31-9 DOT NR

21411 5 G



4,4'-DIFLUOROTOLAN

See 4,4'-Difluorodiphenylacetylene

DIGESTION REAGENT, for KJELDAHL NITROGEN — ITEM 5302

Catalyst for Kjeldahl Nitrogen Test (Standard Methods), replacement for Mercury Sulfate digest solution.

Suitability for determination of organic nitrogen

DOT 8/II

15011 500 ML
15012 6 X 500 ML
15013 4 L
15014 4 X 4 L

DIGLYCOL

See Diethylene Glycol, 99%

DIGLYME

See Diethylene Glycol Dimethyl Ether, 99%

3,4-DIHYDRO-2H-PYRAN, 97% — ITEM 2966

C_5H_8O F.W. 84.12

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 110-87-2 DOT 3/II

89961 100 ML
89962 500 ML
89963 4L
89964 19 L
89965 50 L

Specific Gravity 0.927

1,2-DIHYDROXYBENZENE

See Catechol, 99%

1,3-DIHYDROXYBENZENE

See Resorcinol

2,2-DIHYDROXY-1,3-INDANEDIONE

See Ninhydrin

4,5-DIHYDROXY-2,7-NAPHTHALENEDISULFONIC ACID, DISODIUM SALT

See Chromotropic Acid, Disodium Salt

1,2-DIHYDROXYPROPANE

See Propyleneglycol, Reagent (ACS)

4,5-DIHYDROXY-3-(P-SULFOPHENYLAZO)-2,7-NAPHTHALENEDISULFONIC ACID

See SPADNS

DIIODINE PENTOXIDE

See Iodine Oxide

1,4-DIIODOBUTANE, 98% — ITEM 3797

Stabilized with copper.

$I(CH_2)_4I$ F.W. 309.92

Assay (GC-FID), 97.5% min Stabilizer (Copper), Confirm presence
Identification by GC/MS - Conforms Color - Colorless to yellow
Clarity / Form - Hazy (Due to copper), liquid

CAS # 628-21-7 DOT NR

10861 25 G
10862 100 G

Specific Gravity 02350

1,10-DIIODODECANE — ITEM 3798

Stabilized with copper.

$I(CH_2)_{10}I$ F.W. 394.08

Assay 95% Store over copper shot or copper helix

CAS # 16355-92-3 DOT NR

10871 25 G
10872 100 G

1,6-DIIODOHEXANE, 97% ITEM 3839

Stabilized with copper.

$I(CH_2)_6I$ F.W. 337.97

Assay (GC-FID), 96.5% min
Stabilizer (Copper shot), Confirm presence
Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 629-09-4 DOT NR

10141 25 G
10142 100 G

Specific Gravity 2.050

1,5-DIIODOPENTANE ITEM 3799

Stabilized with copper.

$I(CH_2)_5I$ F.W. 323.94

Assay 97%
Store over copper shot or copper helix

CAS # 628-77-3 DOT NR

10881 25 G
10882 100 G

Specific Gravity 2.177

1,3-DIIODOPROPANE, 98% ITEM 3805

Stored over copper.

$I(CH_2)_3I$ F.W. 295.89

Assay (GC-FID), 97.5% min
Stabilizer (Copper shot), Confirm presence
Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 627-31-6 DOT NR

10891 25 G
10892 100 G
10893 500 G

Specific Gravity 2.576

N,N-DIISOPROPYLAMINE, 99% ITEM 4596

$((CH_3)_2CH)_2NH$ F.W. 101.19

Assay (GC-FID), 98.5% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 108-18-9 DOT 3/8/II

15981 500 ML
15982 2 L

Specific Gravity 0.722

2,2-DIISOPROPYLPROPANENITRILE ITEM 2962

Not on the TSCA inventory.

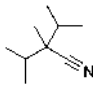
$CH_3C(CH(CH_3)_2)_2CN$ F.W. 139.24

Assay 98.5% min.
Moisture 0.5%
2-Isopropylpropionitrile 0.6%
Propionitrile 0.5%
Appearance - Clear and free of suspended matter
Refractive Index 1.428 - 1.432
2-Bromopropane 0.5%
Propylisopropylpropionitrile 0.1%

CAS # 55897-64-8 DOT NR

34121 50 G
34122 250 G
34123 1 KG

Specific Gravity 0.840



D

1,4-DIMETHOXY-2-BUTYNE, 98% ITEM 5248

Not on the TSCA inventory.

$CH_3OCH_2C{\equiv}CCH_2OCH_3$ F.W. 114.14

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 16356-02-8 DOT 3/III

14381 5 G
14382 25 G

Specific Gravity 0.944

1,2-DIMETHOXYETHANE, 99% ITEM 2510

Ethylene Glycol Dimethyl Ether or Monoglyme

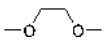
$CH_3OCH_2CH_2OCH_3$ F.W. 90.14

Assay (GC-FID), 98.5% min
H2O (KF), 0.02% max

CAS # 110-71-4 DOT 3/II

34212 1 L
34214 4 L

Specific Gravity 0.867



2,3-DIMETHOXYSTRYCHNIDIN-10-ONE SULFATE

See Brucine Sulfate

N,N-DIMETHYLACETAMIDE, 99% ITEM 3775

C_4H_9NO F.W. 87.12

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 127-19-5 DOT NR NFPA # 2-2-1

10911 1 L
10912 6 X 1 L
10913 4 L
10914 4 X 4 L

Specific Gravity 0.937

DIMETHYL ACETYLENE

See 2-Butyne

D

1,1-DIMETHYLALLENE

See 3-Methyl-1,2-Butadiene, 97%

p-DIMETHYLAMINOBENZALRHODANINE ITEM 250

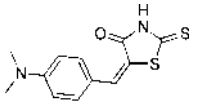
5-(p-Dimethylaminobenzylidine)-rhodanine, Reagent for the detection and colorimetric determination of silver.

$C_{12}H_{12}N_2OS_2$ F.W. 264.36

M.p. 283-285 C

CAS # 536-17-4 DOT NR NFPA # 2-1-1

34302 10 G



2-DIMETHYLAMINOETHANOL, 98% ITEM 5409

$(CH_3)_2NCH_2CH_2OH$ F.W. 89.14

Assay (GC-FID), 97.5% min Appearance - Clear, colorless liquid

CAS # 108-01-0 DOT 8/3/II

20381 500 ML
20382 2.5 L
20383 20 L

Specific Gravity 1.000

5-DIMETHYLAMINO-2-METHYL-3-PENTYN-2-OL, 98% ITEM 3093

Not on the TSCA inventory.

$(CH_3)_2NCH_2C{\equiv}CC(OH)(CH_3)_2$ F.W. 141.22

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Color - Colorless to yellow Clarity / Form - Clear, liquid

CAS # 25400-83-3 DOT NR

80911 25 G

1-DIMETHYLAMINO-2-PENTYNE, 98% ITEM 3094

Not on the TSCA inventory.

$CH_3CH_2C{\equiv}CCH_2N(CH_3)_2$ F.W. 111.19

Assay 98% min.

CAS # 7383-77-9 DOT 3/III

80921 25 G
80922 100 G

Specific Gravity 0.812

4-DIMETHYLAMINOPHENYLACETYLENE, 97% ITEM 5257

Not on the TSCA inventory.

$(CH_3)_2NC_6H_4C{\equiv}CH$ F.W. 145.20

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Appearance - Off-white to yellow/tan solid

CAS # 17573-94-3 DOT NR

17321 1 G

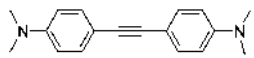
bis(4-DIMETHYLAMINOPHENYL) ACETYLENE ITEM 5260

Not on the TSCA inventory.

$(CH_3)_2NC_6H_4C{\equiv}CC_6H_4N(CH_3)_2$ F.W. 264.36

CAS # 62063-67-6 DOT NR

Please For Sizes



3-DIMETHYLAMINO-1-PROPYNE, 98% ITEM 3095

$HC{\equiv}CCH_2N(CH_3)_2$ F.W. 83.13

Assay (GC-FID), 97.5% min
H2O (KF), 1.0% max
Clarity / Form - Clear, liquid
Identification by GC/MS, Conforms
Color(APHA), 150 max

CAS # 7223-38-3 DOT 3/8/II

80931	25 G
80932	100 G
80933	500 G
80934	3 KG
80935	15 KG
80936	43.5 KG
80937	155 KG

Specific Gravity 0.772

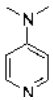
4-DIMETHYLAMINOPYRIDINE, 99% ITEM 2740

$(CH_3)_2NC_5H_4N$ F.W. 122.17

Assay (GC-FID), 98.5% min
Identification by GC/MS - Conforms

CAS # 1122-58-3 DOT 6.1/II NFPA # 3-1-0

34311	10 G
34312	50 G



(N,N-DIMETHYLAMINO)TRIMETHYLSILANE, 98+% ITEM 5508

Material is TSCA listed

$C_5H_{15}NSi$ F.W. 117.26

Assay (GC-FID), 98.0% min
Hexamethyldisiloxane, 1.0% max
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms
Chloride, 50 ppm max

CAS # 2083-91-2 DOT 3/8/II

17571	10 G
17572	50 G
17573	250 G
17574	1.5 KG
17575	14 KG
17576	40 KG

Specific Gravity 0.741

1-DIMETHYLAMINO-3-(TRIMETHYLSILYL)-2-PROPYNE, 98% ITEM 3096

Not on the TSCA inventory.

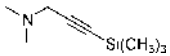
$(CH_3)_3SiC{\equiv}CCH_2N(CH_3)_2$ F.W. 155.31

Assay (GC-FID), 97.5% min
Color - Colorless to amber
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 56849-88-8 DOT 3/II

80941	10 G
80942	50 G

Specific Gravity 0.774



N,N-DIMETHYLANILINE, 98% ITEM 2741

$C_6H_5N(CH_3)_2$ F.W. 121.18

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless to yellow liquid
Identification by GC/MS - Conforms

CAS # 121-69-7 DOT 6.1/II NFPA # 3-2-0

34321	100 ML
34322	1 L

Specific Gravity 0.956

DIMETHYLBENZENE

See Xylenes

3,3-DIMETHYLBENZIDINE

See o-Tolidine

2,6-DIMETHYLBENZOQUINONE, 99% ITEM 3488

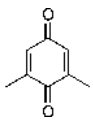
Not on the TSCA inventory

$(CH_3)_2C_6H_2(=O)_2$ F.W. 136.15

Assay (GC-FID), 98.5% min
Color - Yellow to yellow-orange
Identification by GC/MS- Conforms
Form - Powder or fibrous crystal

CAS # 527-61-7 DOT NR

11061	1 G
11062	5 G
11063	50 G



D

4,4'-DIMETHYL-2,2'-BIPYRIDINE, 97% ITEM 127

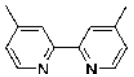
Reagent for colorimetry. Base for oxidation-reduction indicator.

$(CH_3C_5H_3N)_2$ F.W. 184.23

Assay (GC-FID), 96.5% min Melting point, 169-174 C
Identification by GC/MS - Conforms

CAS # 1134-35-6 DOT NR

34402	5 G
34403	10 G
34404	100 G
34405	1 KG



4,4'-DIMETHYL-2,2'-BIPYRIDINE FERROUS PERCHLORATE ITEM 128

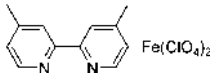
Oxidation-reduction indicator.

$((CH_3)_2C_{10}H_6N_2)_3Fe(ClO_4)_2$ F.W. 807.45

Suitability as an Indicator Pass Test

CAS # 15740-92-8 DOT 5.1/III NFPA # 1-1-1

34421	1 G
34422	5 G
34423	10 G



3,3-DIMETHYL-1-BUTANOL, 98% ITEM 3466

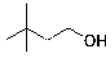
$(CH_3)_3CCH_2CH_2OH$ F.W. 102.18

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
H2O (KF), 0.5% max Appearance - Clear, colorless to yellow liquid

CAS # 624-95-3 DOT 3/III

11071	10 G
11072	50 G
11073	250 G
11074	2 KG

Specific Gravity 0.844



3,3-DIMETHYL-1-BUTENE, 95% ITEM 3416

Neohexene

$(CH_3)_3CCH=CH_2$ F.W. 84.16

Assay (GC-FID), 94.0% min Stabilizer (BHT), Confirm presence
Color - Colorless Clarity / Form - Clear, liquid

CAS # 558-37-2 DOT 3/II NFPA # 1-3-0

89691	25 G
89692	100 G

Specific Gravity 0.653

3,3-DIMETHYL-1-BUTYNE, 97% ITEM 3097

Not on the TSCA inventory.

$(CH_3)_3CC\equiv CH$ F.W. 82.15

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Color - Colorless Clarity / Form - Clear, liquid

CAS # 917-92-0 DOT 3/II

80951	10 G
80952	50 G
80954	250 G
80955	1 KG

Specific Gravity 0.668

2,9-DIMETHYL-5-DECYNE, 98% ITEM 3840

Not on the TSCA inventory.

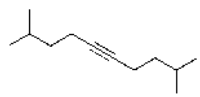
$(CH_3)_2CHCH_2CH_2C\equiv CCH_2CH_2CH(CH_3)_2$ F.W. 166.31

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 19550-56-2 DOT NR

Please For Sizes

Specific Gravity 0.774



DIMETHYLDIACETYLENE

See 2,4-Hexadiyne, 99%

2,9-DIMETHYL-4,7-DIPHENYL-1,10-PHENANTHROLINE

See Bathocuproine

2,9-DIMETHYL-4,7-DIPHENYL-1,10-PHENANTHROLINEDISULFONATE

See Bathocuproine, Sulfonated, Sodium Salt

N,N-DIMETHYLETHANOLAMINE

See 2-Dimethylaminoethanol, 98%

1-DIMETHYLETHOXY-4-ETHYNYLBENZENE

See 4-(t-Butoxy)phenylacetylene, 98%

N,N-DIMETHYLFORMAMIDE, REAGENT (ACS) ITEM 913

$HCON(CH_3)_2$ F.W. 73.09

Assay 99.8% min.
Color (APHA) 15 max.
Titrable base 0.003 meq/g
Water 0.15%
Appearance - clear
Residue after evaporation 0.005%
Titrable acid 0.0005 meq/g

CAS # 68-12-2 DOT 3/III NFPA # 3-2-1

34471	500 ML
34472	4 L
34473	4 X 4 L

Specific Gravity 0.950

DIMETHYLGLYOXIME, REAGENT (ACS) ITEM 241

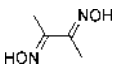
Organic precipitant for nickel and palladium. See also sodium dimethylglyoximate octahydrate.

$(CH_3CNOH)_2$ F.W. 116.12

Melting point About 240 C
Residue after ignition 0.05%
Insoluble in Alcohol 0.05%
Suitability for Nickel determination- pass test

CAS # 95-45-4 DOT NR NFPA # 2-1-0

34501	100 G
34502	500 G
34503	2.5 KG
34504	10 KG



DIMETHYLGLYOXIME, SODIUM SALT

See Sodium Dimethylglyoxime

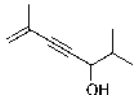
2,6-DIMETHYL-6-HEPTEN-4-YN-3-OL ITEM 3842

Not on the TSCA inventory.

$CH_3CH(CH_3)CH(OH)C{\equiv}CC(CH_3){=}CH_2$ F.W. 138.21

CAS # 96850-54-3

Please For Sizes



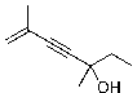
3,6-DIMETHYL-6-HEPTEN-4-YN-3-OL ITEM 3843

Not on the TSCA inventory.

$CH_3CH_2C(OH)(CH_3)C{\equiv}CC(CH_3){=}CH_2$ F.W. 138.21

CAS # 3601-67-0

Please For Sizes



6,6-DIMETHYL-1-HEPTEN-4-YN-3-OL, 98% ITEM 3841

Not on the TSCA inventory.

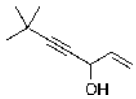
$H_2C{=}CHCH(OH)C{\equiv}CC(CH_3)_3$ F.W. 138.21

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless to yellow liquid
Identification by GC/MS - Conforms

CAS # 78629-20-6

17851	5 G

Specific Gravity 0.900



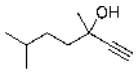
3,6-DIMETHYL-1-HEPTYN-3-OL ITEM 3844

Not on the TSCA inventory.

$HC{\equiv}CC(CH_3)(OH)(CH_2)_2CH(CH_3)_2$ F.W. 140.23

CAS # 19549-98-5

Please For Sizes



D

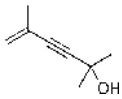
2,5-DIMETHYL-5-HEXEN-3-YN-2-OL ITEM 3846

Not on the TSCA inventory.

$CH_2=C(CH_3)C\equiv CC(OH)(CH_3)_2$ F.W. 124.18

CAS # 2696-26-6

Please For Sizes



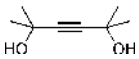
2,5-DIMETHYL-3-HEXYN-2,5-DIOL, 98% ITEM 3098

$(CH_3)_2C(OH)C\equiv CC(OH)(CH_3)_2$ F.W. 142.20

Assay 98% min. Melting Point 90-94 C

CAS # 142-30-3 DOT NR

80961 100 G
80962 500 G



2,2-DIMETHYL-3-HEXYNE ITEM 3847

Not on the TSCA inventory.

$(CH_3)_3CC\equiv CCH_2CH_3$ F.W. 110.20

CAS # 4911-60-8

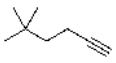
Please For Sizes

5,5-DIMETHYL-1-HEXYNE ITEM 3848

Not on the TSCA inventory.

$(CH_3)_3C(CH_2)_2C\equiv CH$ F.W. 110.20

Please For Sizes



DIMETHYLMALONATE, 98% ITEM 5506

$C_5H_8O_4$ F.W. 132.11

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 108-59-8 DOT NR

17031 500 G
17032 2.5 KG

Specific Gravity 1.160

2,3-DIMETHYL-2-(1-METHYLETHYL)BUTANENITRILE

See 2,2-Diisopropylpropanenitrile

2,7-DIMETHYL-3,5-OCTADIYN-2,7-DIOL, 96% ITEM 3100

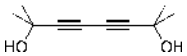
Requires refrigeration. Not on the TSCA inventory.

$[-C\equiv CC(CH_3)_2OH]_2$ F.W. 166.22

Assay (GC-FID), 95.0% min Identification by GC/MS - Conforms
Color - White to off-white Form - Crystal or powder

CAS # 5929-72-6 DOT 9/III

80981 5 G
80982 25 G
80983 100 G
80984 500 G
80985 5 KG

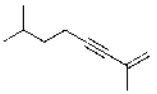


2,7-DIMETHYL-1-OCTEN-3-YNE ITEM 3849

Not on the TSCA inventory.

$(CH_3)_2CH(CH_2)_2C\equiv CC(CH_3)=CH_2$ F.W. 136.24

Please For Sizes



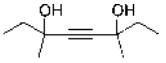
3,6-DIMETHYL-4-OCTYN-3,6-DIOL, 98% ITEM 5254

$CH_3CH_2C(CH_3)OHC\equiv CC(CH_3)OHCH_2CH_3$ F.W. 170.25

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 78-66-0 DOT NR

Please For Sizes



4,4-DIMETHYL-2-PENTYNE, 98% ITEM 3410

Not on the TSCA inventory.

$(CH_3)_3CC\equiv CCH_3$ F.W. 96.18

Assay (GC-FID), 97.5% min

CAS # 999-78-0 DOT 3/II

83721 5 G
83722 25 G

Specific Gravity 0.718

3,4-DIMETHYL-1-PENTYN-3-OL ITEM 3851

Not on the TSCA inventory.

$HC{\equiv}CC(OH)(CH_3)CH(CH_3)_2$ F.W. 112.17

CAS # 1482-15-1

Please For Sizes

2,9-DIMETHYL-1,10-PHENANTHROLINE, REAGENT (ACS) ITEM 154

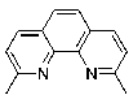
Neocuproine. Reagent for the colorimetric determination of copper.

$(CH_3)_2C_{12}H_6N_2$ F.W. 208.25

Melting point - Report
Sensitivity to copper - Pass test
Clarity of solution - Pass test
Loss on drying @ 100 C - 6.0% max.

CAS # 484-11-7 DOT NR NFPA # 2-1-1

34601	1 G
34602	5 G
34604	25 G
34605	100 G
34606	1 KG
34607	5 KG



4,7-DIMETHYL-1,10-PHENANTHROLINE, 98%, ANHYDROUS ITEM 2463

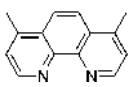
Reagent for colorimetric and gravimetric determination of iron. Base for oxidation-reduction indicator.

$(CH_3)_2C_{12}H_6N_2$ F.W. 208.26

Assay (Non-aqueous titration), 97.5% - 102.5%
Loss on drying, 1.0% max
Suitability as indicator - Pass Test
Appearance - Yellow to brown solid/powder

CAS # 3248-05-3 DOT NR

34721	1 G
34722	5 G
34723	10 G



4,7-DIMETHYL-1,10-PHENANTHROLINE, MONOHYDRATE ITEM 132

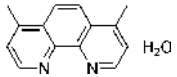
Reagent for colorimetric and gravimetric determination of iron. Base for oxidation-reduction indicator.

$(CH_3)_2C_{12}H_6N_2{\bullet}H_2O$ F.W. 226.27

Melting point 194-196 C
Suitability as an indicator - Pass Test

CAS # 3248-05-3 DOT NR

34701	1 G
34702	5 G
34703	10 G



2,2-DIMETHYL-1-PROPANOL

See Neopentyl Alcohol

1,1-DIMETHYLPROPARGYLAMINE

See 3-Amino-3-Methyl-1-Butyne, 95%

3,4-DIMETHYLPYRIDINE, 97% ITEM 4645

$(CH_3)_2C_5H_3N$ F.W. 107.16

CAS # 583-58-4

Please For Sizes

Specific Gravity 0.955

2,5-DIMETHYLPYRROLE, 98% ITEM 5538

Not on the TSCA inventory.

C_6H_9N F.W. 95.14

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 625-84-3 DOT 3/6.1/III

Please For Sizes

Specific Gravity 0.935

DIMETHYL SULFOXIDE

See Methyl Sulfoxide, Reagent (ACS)

D

4,4'-DINONYL-2,2'-BIPYRIDINE, 98% ITEM 5522

Not on the TSCA inventory.

$C_{28}H_{44}N_2$ F.W. 408.66

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - White to off-white powder/crystal

CAS # 142646-58-0 DOT NR

17261	5 G
17262	25 G
17263	100 G
17264	1 KG

DIOXANE, REAGENT (ACS) ITEM 915

1,4-Dioxane. Contains no stabilizer.

$C_4H_8O_2$ F.W. 88.11

Assay 99.0% min. Water 0.05%
Color(APHA) 20 max. Peroxide 0.005%
Freezing point 11.0 C min. Residue after evaporation 0.005%
Titrable Acid 0.0016 meq/g Carbonyl(HCHO) 0.01%

CAS # 123-91-1 DOT 3/II NFPA # 3-4-2

34953	1 L
34955	6 X 1 L
34952	4 L
34954	4 X 4 L

Specific Gravity 1.030

1,3-DIOXOLAN-2-ONE

See Ethylene Carbonate, Reagent

DIPAIN

See 2-Diphenylacetylindane-1,3-Dione-1-Hydrazone

1,6-DIPHENOXY-2,4-HEXADIYNE, 98% ITEM 3101

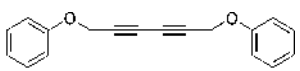
Not on the TSCA inventory.

$C_6H_5OCH_2C{\equiv}CC{\equiv}CCH_2OC_6H_5$ F.W. 262.29

Assay (HPLC - Area % at 254 nm), 97.5% min Appearance - White to orange crystal/powder

CAS # 30980-37-1 DOT 4.1/II

80991	10 G
80992	50 G



DIPHENYLACETAMIDE ITEM 507

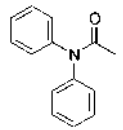
Acetyldiphenylamine

$(C_6H_5)_2NCOCH_3$ F.W. 211.27

M.p. 100-102 C

CAS # 519-87-9 DOT NR

35001	100 G
35002	500 G



DIPHENYLACETYLENE, 98% ITEM 3102

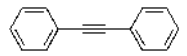
$C_6H_5C{\equiv}CC_6H_5$ F.W. 178.23

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - White to yellow crystal/solid

CAS # 501-65-5 DOT NR

81003	5 G
81001	25 G
81002	100 G

Specific Gravity 0.990



2-DIPHENYLACETYLINDANE-1,3-DIONE-1-HYDRAZONE ITEM 2366

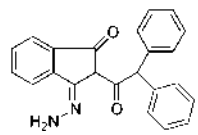
Light sensitive.

$C_{23}H_{18}N_2O_2$ F.W. 354.41

Suitability as HPLC Reagent - Pass test Melting point 241-242 C

CAS # 5102-79-4 DOT NR

84001	1 G
84002	5 G
84003	25 G



DIPHENYLAMINE, REAGENT (ACS) ITEM 133

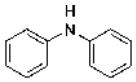
N-Phenylbenzeneamine. Oxidation-reduction indicator.

$(C_6H_5)_2NH$ F.W. 169.22

Solubility in alcohol - Pass Test
Residue after ignition 0.03%
Nitrate - Pass Test
Sensitivity to nitrate - Pass Test
M.p. 52.5-54.0 C

CAS # 122-39-4 DOT NR NFPA # 1-1-1

35101	100 G
35102	500 G
35103	2.5 KG
35104	10 KG
35105	25 KG



DIPHENYLAMINE INDICATOR, SOLUTION, 0.3% AQUEOUS ITEM 2061

$(C_6H_5)_2NH$ F.W. 169.22

Suitability as an indicator - pass test

CAS # 122-39-4 DOT NR

24601	500 ML

Specific Gravity 1.000

DIPHENYLAMINE SULFONIC ACID, SODIUM SALT

See Sodium Diphenylamine Sulfonate

DIPHENYLAMINE SULFONIC ACID, SOLUTION, 0.005 M AQUEOUS ITEM 134

Oxidation-reduction indicator.

$C_6H_5NHC_6H_4SO_3H$

Suitability as indicator - pass test

CAS # 101-57-5 DOT NR

35201	500 ML

Specific Gravity 1.000

4,4'-DIPHENYL-2,2'-BIPYRIDINE ITEM 283

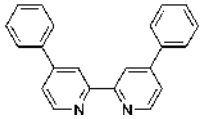
Reagent for the colorimetric determination of iron. Schilt and Smith, Anal.Chim.Acta., 16,401 (1957)

$C_{22}H_{16}N_2$ F.W. 308.36

Assay >90%
Sensitivity to iron - Pass Test
Melting point 188-189 C

CAS # 6153-92-0 DOT NR

35301	1 G
35302	5 G
35303	25 G



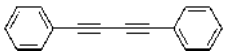
1,4-DIPHENYLBUTADIYNE, 98% ITEM 3104

$C_6H_5C{\equiv}CC{\equiv}CC_6H_5$ F.W. 202.26

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms
Appearance - White to off-white crystals / solid

CAS # 886-66-8 DOT 9/III

81021	10 G
81022	50 G
81023	250 G
81024	1 KG



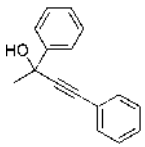
2,4-DIPHENYL-3-BUTYN-2-OL ITEM 3853

Not on the TSCA inventory.

$CH_3C(OH)(C_6H_5)C{\equiv}C(C_6H_5)$ F.W. 222.29

CAS # 5876-69-7

Please For Sizes



DIPHENYLCARBAZIDE

See 1,5-Diphenylcarbohydrazide

D

s-DIPHENYLCARBAZONE, REAGENT (ACS) — ITEM 822

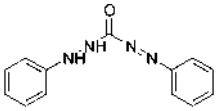
Reagent for mercury determination.

$C_{26}H_{26}N_8O_2$ F.W. 482.55

Solubility in acetone - Pass Test
Sensitivity to mercury - Pass Test
Residue after ignition 0.1%

CAS # 538-62-5 DOT NR NFPA # 2-1-1

35402	25 G
35403	100 G
35405	1 KG
35406	5 KG



D

1,5-DIPHENYLCARBOHYDRAZIDE, REAGENT (ACS) — ITEM 823

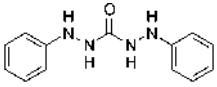
sym-Diphenylcarbazide

$C_{13}H_{14}N_4O$ F.W. 242.29

Residue after ignition 0.05%
Sensitivity to chromate - Pass Test
M.p. 173-176 C
Solubility in aqueous acetone - Pass Test

CAS # 140-22-7 DOT NR NFPA # 1-1-1

35422	25 G
35423	100 G
35424	1 KG
35425	2.5 KG
35426	10 KG



4,7-DIPHENYL-2,9-DIMETHYL-1,10-PHENANTHROLINE

See Bathocuproine

DIPHENYL ETHER

See Phenyl Ether, 99%

DIPHENYLETHYNYL CARBINOL

See 1,1-Diphenyl-2-Propyn-1-ol

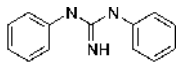
DIPHENYLGUANIDINE, PRIMARY STANDARD — ITEM 136

$(C_6H_5NH)_2C{=}NH$ F.W. 211.26

Assay (Nonaqueous titration), 99.90% - 100.10%
Melting point, 148-152 C
Appearance - White crystal/powder

CAS # 102-06-7 DOT NR

35501	100 G
35502	500 G



DIPHENYLGUANIDINE, REAGENT — ITEM 10

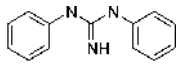
White powder

$(C_6H_5NH)_2C{=}NH$ F.W. 211.26

Assay 99.5% min
Melting Point 148-152 C

CAS # 102-06-7 DOT NR

35490	100 G
35491	500 G



1,1-DIPHENYLHEPTANE, 97% — ITEM 3105

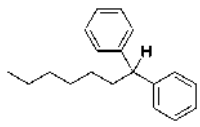
Not on the TSCA inventory.

$CH_3(CH_2)_5CH(C_6H_5)_2$ F.W. 253.39

Assay (GC-FID), 96.5% min
Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 1530-05-8 DOT 9/III

81031	10 G
81032	50 G



1,1-DIPHENYLHEXANE, 98% — ITEM 3106

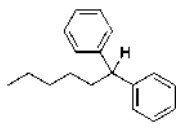
Not on the TSCA inventory.

$CH_3(CH_2)_4CH(C_6H_5)_2$ F.W. 238.20

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 1530-04-7 DOT 9/III

81041	10 G
81042	50 G



DIPHENYLMETHANE, 98% ITEM 3107

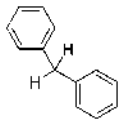
$CH_2(C_6H_5)_2$ F.W. 168.24

Assay 98% Melting point 22-24 C
Index of refraction 1.5770

CAS # 101-81-5 DOT 9/III

81051	100 G
81052	500 G

Specific Gravity 1.010



1,1-DIPHENYLPENTANE, 97% ITEM 3108

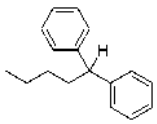
Not on the TSCA inventory.

$CH_3(CH_2)_3CH(C_6H_5)_2$ F.W. 224.35

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms

CAS # 1726-12-1 DOT 9/III

81061	10 G
81062	50 G

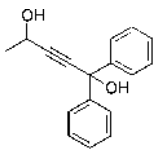


1,1-DIPHENYL-2-PENTYN-1,4-DIOL ITEM 3852

Not on the TSCA inventory.

$(C_6H_5)_2C(OH)C{\equiv}CCH(OH)CH_3$ F.W. 252.31

Please For Sizes



4,7-DIPHENYL-1,10-PHENANTHROLINE

See Bathophenanthroline

4,7-DIPHENYL-1,10-PHENANTHROLINEDISULFONIC ACID DISODIUM SALT

See Bathophenanthroline, Sulfonated

4,7-DIPHENYL-1,10-PHENANTHROLINE RUTHENIUM CHLORIDE

See tris-(Bathophenanthroline) Ruthenium (II) Chloride

4,7-DIPHENYL-1,10-PHENANTHROLINE RUTHENOUS TETRAPHENYLBORON

See tris-(Bathophenanthroline) Ruthenium (II) Tetraphenylboron

1,1-DIPHENYLPROPANE, 98% ITEM 3109

Not on the TSCA inventory.

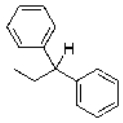
$CH_3CH_2CH(C_6H_5)_2$ F.W. 196.29

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms

CAS # 1530-03-6 DOT 9/III

81071	10 G
81072	50 G

Specific Gravity 0.995



1,1-DIPHENYLPROPARGYL ALCOHOL

See 1,1-Diphenyl-2-Propyn-1-ol

1,1-DIPHENYL-2-PROPYN-1-OL, 97% ITEM 3110

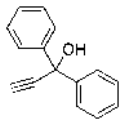
Not on the TSCA inventory.

$(C_6H_5)_2C(OH)C{\equiv}CH$ F.W. 208.26

Assay (GC-FID) - 96.5% min. Identification by GC/MS - Conforms
Color - White to off-white Form - Crystal or powder

CAS # 3923-52-2 DOT 9/III

81083	5 G
81081	25 G
81082	100 G
81084	1 KG
81085	20 KG



DIPHENYLTHIOCARBAZONE

See Dithizone

D

DIPOTASSIUM DIHYDROGEN ETHYLENEDIAMINETETRAACETIC ACID, DIHYDRATE, REAGENT — ITEM 1120

$(KO_2CCH_2)_2NC_2H_4N(CH_2CO_2H)_2 \bullet 2H_2O$ F.W. 404.46

Assay 98-102% | Insoluble 0.005%
pH of 5% solution 4.0-6.0 | NTA 0.1%
Heavy Metals (Pb) 0.005% | Iron 0.01%

CAS # 25102-12-9 DOT NR NFPA # 1-1-0

35575	100 G
35571	500 G
35572	2.5 KG
35573	10 KG
35574	50 KG

DIPOTASSIUM HYDROGEN PHOSPHATE

See Potassium Phosphate, Dibasic

D

DIPOTASSIUM PENTACALCIUM DICALCEIN — ITEM 590

(Statocalcein) A superior indicator for the EDTA titration of calcium. Hoyle and Diehl, Talanta, 19,206 (1972). NOT on TSCA inventory.

$K_2Ca_5(C_{30}H_{20}N_2O_{13})_2$ F.W. 1511.58

Suitability as complexometric indicator Pass test

CAS # 36352-49-5 DOT NR

35602	5 G

DIPOTASSIUM PHOSPHATE

See Potassium Phosphate, Dibasic

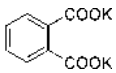
DIPOTASSIUM PHTHALATE, 98% — ITEM 2540

$C_6H_4(COOK)_2$ F.W. 242.32

Assay (Nonaqueous titration), 97.5% - 102.5% | pH (5% solution) 6.5-8.5

CAS # 4409-98-7 DOT NR

35631	25 G
35632	100 G
35633	500 G
35635	10 KG
35636	50 KG



DIPROPARGYLAMINE, 97% — ITEM 3854

Not on the TSCA inventory.

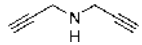
$(HC{\equiv}CCH_2)_2NH$ F.W. 93.13

Assay (GC-FID), 96.5% min | Identification by GC/MS - Conforms
Color - Colorless to dark amber | Clarity / Form - Clear, liquid

CAS # 6921-28-4 DOT 3/8/III

10021	5 G
10023	25 G
10024	100 G
10025	1 KG

Specific Gravity 0.907



DIPROPARGYL ETHER, 98% — ITEM 3112

Keep refrigerated. NOT on the TSCA inventory. Inhibited with BHT about 150 ppm.

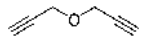
$HC{\equiv}CCH_2OCH_2C{\equiv}CH$ F.W. 94.11

Assay (GC-FID), 97.5% min | Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 6921-27-3 DOT 3/6.1/II

81101	10 G
81102	50 G
81103	250 G
81104	1 KG

Specific Gravity 0.918



1-(DI-n-PROPYLAMINO)-2-PROPYNE, 98% — ITEM 3390

Not on the TSCA inventory.

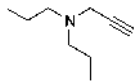
$(CH_3CH_2CH_2)_2NCH_2C{\equiv}CH$ F.W. 139.24

Assay (GC-FID), 97.5% min | Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 6323-79-1 DOT 3/8/II

89511	10 G
89512	50 G
89513	250 G

Specific Gravity 0.799



3-(DIPROPYLAMINO)-1-PROPYNE

See 1-(Di-n-Propylamino)-2-Propyne

DI-n-PROPYLPHTHALATE 99.5% ITEM 2261

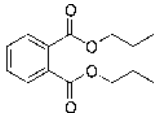
$C_6H_4(CO_2C_3H_7)_2$ F.W. 250.31

Assay 99.5% (GC)

CAS # 131-16-8 DOT NR NFPA # 3-2-2

Please For Sizes

Specific Gravity 1.078



DIPROPYLPROPARGYLAMINE

See 1-(Di-n-Propylamino)-2-Propyne

DI(2-PROPYNYL)AMINE

See Dipropargylamine

2,2'-DIPYRIDYL

See 2,2'-Bipyridine, 99%

DISODIUM CALCIUM ETHYLENEDIAMINETETRAACETATE ITEM 514

$(NaO_2CCH_2)_2NC_2H_4N(CH_2CO_2)_2Ca$ F.W. 374.29

Assay 97% min. pH of 1% solution 6.5-8.0

CAS # 62-33-9 DOT NR

35801	100 G
35802	500 G
35803	2.5 KG
35804	10 KG
35805	50 KG

DISODIUM DIHYDROGEN ETHYLENEDIAMINETETRAACETATE DIHYDRATE, PRIMARY STANDARD ITEM 365

A primary standard material for EDTA titration work. W.J. Blaedel and H.T. Knight, Anal. Chem., 26,743 (1954)

$(NaO_2CCH_2)_2NC_2H_4N(CH_2CO_2H)_2 \bullet 2H_2O$ F.W. 372.26

Assay 99.9%-100.1%
pH of 5% solution 4.0-6.0
Iron 0.01%
Insoluble 0.005%
Heavy Metals (Pb) 0.005%

CAS # 6381-92-6 DOT NR NFPA # 1-1-0

36021	100 G
36022	500 G

DISODIUM DIHYDROGEN ETHYLENEDIAMINETETRAACETATE DIHYDRATE, REAGENT (ACS) ITEM 247

EDTA: Disodium dihydrogen ethylenedinitrilotetraacetate. Reagent for the complexometric titration of calcium, magnesium and other metals.

$(NaO_2CCH_2)_2NC_2H_4N(CH_2CO_2H)_2 \bullet 2H_2O$ F.W. 372.26

Assay 99.0-101.0%
pH of 5% solution 4.0-6.0
Heavy Metals (Pb) 0.005%
Insoluble 0.005%
Nitrilotriacetic acid 0.1%
Iron 0.01%

CAS # 6381-92-6 DOT NR NFPA # 1-1-0

36007	100 G
36001	500 G
36002	2.5 KG
36003	10 KG
36004	50 KG

DISODIUM DIHYDROGEN ETHYLENEDIAMINETETRAACETATE SOLUTION, 0.1M ITEM 720

$C_{10}H_{14}O_8N_2Na_2$

Actual molarity 0.1000 ± 0.0002 M

CAS # 6381-92-6 DOT NR NFPA # 1-0-0

36031	4 L
36032	4 X 4 L
36033	20 L

Specific Gravity 1.020

DISODIUM DIHYDROGEN ETHYLENEDIAMINETETRAACETATE SOLUTION, 0.0575M ITEM 1553

$C_{10}H_{14}O_8N_2Na_2$

Actual molarity 0.0575 ± 0.0002

CAS # 6381-92-6 DOT NR NFPA # 1-0-0

36061	4 L
36062	20 L

Specific Gravity 1.010

DISODIUM DIHYDROGEN ETHYLENEDIAMINETETRAACETATE SOLUTION, 0.05M ITEM 1151

$C_{10}H_{14}O_8N_2Na_2$

Actual molarity 0.0500 ± 0.0005 M

CAS # 6381-92-6 DOT NR NFPA # 1-0-0

36041	4 L

D

DISODIUM DIHYDROGEN ETHYLENEDIAMINETETRAACETATE SOLUTION, 0.01M — ITEM 1152

1 ml = 1 mg $CaCO_3$. APHA for water hardness (without magnesium)

$C_{10}H_{14}O_8N_2Na_2$

Actual molarity 0.0100 ± 0.0005 M

CAS # 6381-92-6 DOT NR NFPA # 0-0-0

36051 4 L
36052 20 L

Specific Gravity 1.000

DISODIUM HYDROGEN PHOSPHATE

See Sodium Phosphate, Dibasic

2,6-DI-TERT-BUTYL-p-CRESOL

See 2,6-Di-Tert-Butyl-4-Methylphenol

DITHIZONE, REAGENT (ACS) — ITEM 139

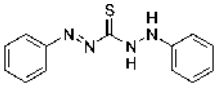
Reagent for the colorimetric determination of various metals. (Diphenylthiocarbazone)

$C_6H_5NHNHCSN{=}NC_6H_5$ F.W. 256.32

Assay 85.0% minimum
Residue after ignition 0.3%
Ratio of absorbances 1.55 minimum
Heavy metals (Pb) 0.002%

CAS # 60-10-6 DOT NR NFPA # 1-1-1

36501 10 G
36502 25 G



DI-p-TOLUOYL-L-TARTARIC ACID — ITEM 1683

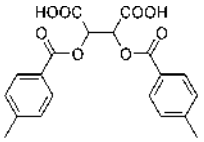
DTTA

$(C_{10}H_9O_4)_2$ F.W. 386.36

Assay 95% min.
Loss on drying (105 C 4 hr) 0.5%

CAS # 32634-66-5 DOT NR NFPA # 1-1-1

36512 25 G
36513 100 G



DI-p-TOLYLACETYLENE — ITEM 5287

Not on the TSCA inventory.

$CH_3C_6H_4C{\equiv}CC_6H_4CH_3$ F.W. 206.28

CAS # 2789-88-0

Please For Sizes

DMF

See N,N-Dimethylformamide

DMG

See Dimethylglyoxime

DMSO

See Methyl Sulfoxide Reagent (ACS)

10,12-DOCOSADIYNEDIOIC ACID, 98% — ITEM 3113

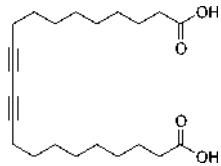
Requires refrigeration. Not on the TSCA inventory.

$HOOC(CH_2)_8C{\equiv}CC{\equiv}C(CH_2)_8COOH$ F.W. 362.49

Assay (GC-FID by Esterification), 97.5% min
Identification by GC/MS - Conforms
Appearance - White to blue solid/flakes

CAS # 28393-02-4 DOT NR

81111 5 G
81112 25 G



10,12-DOCOSADIYNDIOIC ACID DIMETHYL ESTER, 95% — ITEM 3114

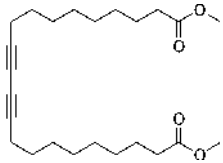
Requires refrigeration. Not on the TSCA inventory.

$CH_3OOC(CH_2)_8C{\equiv}CC{\equiv}C(CH_2)_8COOCH_3$ F.W. 390.54

Assay 95% min.

CAS # 24567-41-7 DOT 9/III

81121 5 G
81122 25 G



5,7-DODECADIYNDIOIC ACID, 98% ITEM 3118

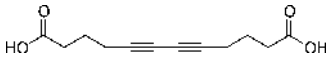
Requires refrigeration. Not on the TSCA inventory.

$HOOC(CH_2)_3C{\equiv}CC{\equiv}C(CH_2)_3COOH$ F.W. 222.24

Assay (GC-FID by Esterification), 97.5% min
Identification by GC/MS - Conforms
Appearance - Light tan to blue or pink solid

CAS # 28393-04-6 DOT NR

81162 5 G



5,7-DODECADIYN-1,12-DIOL, 95% ITEM 3115

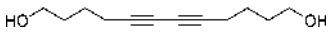
Requires refrigeration. Not on the TSCA inventory.

$HO(CH_2)_4C{\equiv}CC{\equiv}C(CH_2)_4OH$ F.W. 194.26

Assay (GC-FID), 94.0% min
Identification by GC/MS - Conforms

CAS # 74602-32-7 DOT NR

81131 5 G
81132 25 G
81133 100 G
81134 500 G
81135 5 KG



2,10-DODECADIYNE, 97% ITEM 3856

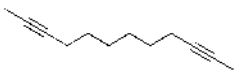
Not on the TSCA inventory.

$CH_3C{\equiv}C(CH_2)_6C{\equiv}CCH_3$ F.W. 162.28

Assay (GC-FID), 96.5% min
Identification by GC/MS - Conforms
Color - Colorless to yellow
Clarity / Form - Clear, liquid

CAS # 31699-38-4 DOT NR

Please For Sizes



3,9-DODECADIYNE, 95% ITEM 3117

Not on the TSCA inventory.

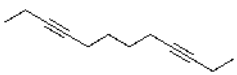
$CH_3CH_2C{\equiv}C(CH_2)_4C{\equiv}CCH_2CH_3$ F.W. 162.28

Assay 95% min.

CAS # 61827-89-2 DOT NR

81151 25 G
81152 100 G

Specific Gravity 0.830



4,6-DODECADIYNOIC ACID, 97% ITEM 3858

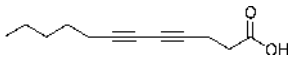
Not on the TSCA inventory.

$CH_3(CH_2)_4C{\equiv}CC{\equiv}C(CH_2)_2COOH$ F.W. 188.23

Assay (GC-FID by Esterification), 96.5% min
Assay (HPLC area % at 226 nm), 96.5% min
Identification by GC/MS - Conforms
Appearance - White to pink solid

CAS # 100256-61-9 DOT NR

21421 5 G



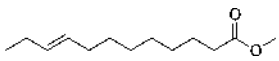
trans-9-DODECEN-1-YL ACETATE, 95% ITEM 3119

$CH_3CH_2CH{=}CH(CH_2)_8OOCCH_3$ F.W. 226.36

CAS # 35148-19-7

Please For Sizes

Specific Gravity 0.788



DODECYL BROMIDE

See 1-Bromododecane, 97%

DODECYL IODIDE

See 1-Iododododecane

DODECYL SULFATE, SODIUM SALT

See Sodium Dodecyl Sulfate

1-DODECYNE, 98% ITEM 3120

$CH_3(CH_2)_9C{\equiv}CH$ F.W. 166.31

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 765-03-7 DOT NR

81181 25 G
81182 100 G
81184 1 KG

Specific Gravity 0.779

D

1-DODECYNE, 96% — ITEM 3460

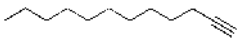
$CH_3(CH_2)_9C{\equiv}CH$ F.W. 166.31

Assay 96%

CAS # 765-03-7 DOT NR

11081	5 G
11082	25 G
11083	100 G

Specific Gravity 0.779



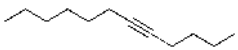
5-DODECYNE — ITEM 3860

Not on the TSCA inventory.

$CH_3(CH_2)_5C{\equiv}C(CH_2)_3CH_3$ F.W. 166.31

CAS # 19780-12-2

Please For Sizes



6-DODECYNE, 98% — ITEM 3122

Not on the TSCA inventory.

$CH_3(CH_2)_4C{\equiv}C(CH_2)_4CH_3$ F.W. 166.31

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 6975-99-1 DOT 9/III

81191	10 G
81192	50 G

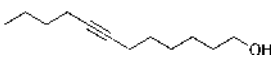
Specific Gravity 0.787

7-DODECYN-1-OL — ITEM 3861

$CH_3(CH_2)_3C{\equiv}C(CH_2)_5CH_2OH$ F.W. 182.30

CAS # 41862-94-6

Please For Sizes



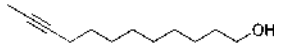
10-DODECYN-1-OL — ITEM 3862

Not on the TSCA inventory.

$CH_3C{\equiv}C(CH_2)_8CH_2OH$ F.W. 182.30

CAS # 69221-99-4 DOT NR

Please For Sizes



DOWEX® 50WX2-200, CATION-EXCHANGE RESIN — ITEM 2680

Strong acid cation exchange resin with 2% cross-linking; hydrogen ion form; 100-200 mesh.

Wet volume capacity,
H form 0.6 meq/mL min. Water retention capacity, H form 74 - 82%
Particle size: on 35 mesh
15% max. Particle size: thru 140 mesh 15% max.

DOT NR

88731	100 G
88732	500 G
88733	1 KG

DOWEX® 50WX2-400, CATION-EXCHANGE RESIN — ITEM 2681

Strong acid cation exchange resin with 2% cross-linking; hydrogen ion form; 200-400 mesh.

Wet volume capacity,
H form 0.6 meq/mL min. Water retention capacity, H form 74 - 82%
Particle size: on 70 mesh
15% max. Particle size: thru 270 mesh 15% max.

DOT NR

88741	100 G
88742	500 G
88743	1 KG

DOWEX® 50WX4-200, CATION-EXCHANGE RESIN — ITEM 2683

Strong acid cation exchange resin with 4% cross-linking; hydrogen ion form; 100-200 mesh.

Wet volume capacity,
H form 1.1 meq/ml min. Water retention capacity, H form 64 - 72%

DOT NR

88751	100 G
88752	500 G
88753	1 KG

DOWEX® 50WX4-400, CATION-EXCHANGE RESIN — ITEM 2684

Strong acid cation exchange resin with 4% cross-linking; hydrogen ion form; 200-400 mesh.

Wet volume capacity,
H form 1.1 meq/ml min. — Water retention capacity, H form 64 - 72%

DOT NR

88761	100 G
88762	500 G
88763	1 KG

DOWEX® 50WX8-100, CATION-EXCHANGE RESIN — ITEM 2686

Strong acid cation exchange resin with 8% cross-linking; hydrogen ion form; 50-100 mesh.

Wet volume capacity,
H form 1.7 meq/ml min. — Water retention capacity, H form 50 - 56%
Particle size on 35 mesh
15% max. — Particle size through 80 mesh 15% max.

DOT NR

88781	100 G
88782	500 G
88783	1 KG

DOWEX® 50WX8-200, CATION-EXCHANGE RESIN — ITEM 2687

Strong acid cation exchange resin with 8% cross-linking; hydrogen ion form; 100-200 mesh.

Wet volume capacity,
H form 1.7 meq/mL min. — Water retention capacity, H form 50 - 58%
Particle size: on 60 mesh
15% max. — Particle size: thru 170 mesh 15% max.

DOT NR

88791	100 G
88792	500 G
88793	1 KG

DOWEX® 50WX8-400, CATION-EXCHANGE RESIN — ITEM 2688

Strong acid cation exchange resin with 8% cross-linking; hydrogen ion form; 200-400 mesh.

Wet volume capacity,
H form 1.7 meq/mL min. — Water retention capacity, H form 50 - 58%
Particle size: on 100 mesh
15% max. — Particle size: thru 325 mesh 15% max.

DOT NR

88801	100 G
88802	500 G
88803	1 KG

DOWEX® 1X2-200, ANION-EXCHANGE RESIN — ITEM 2665

Type I strong base anion exchange resin with 2% cross-linking; chloride ion form; 100-200 mesh.

Wet volume capacity,
Cl form 0.6 meq/mL min. — Water retention capacity, Cl form 70 - 80%
Particle size: on 50 mesh
15% max. — Particle size: thru 140 mesh 15% max.

DOT NR

88581	100 G
88582	500 G
88583	1 KG

DOWEX® 1X2-400, ANION-EXCHANGE RESIN — ITEM 2666

Type I strong base anion exchange resin with 2% cross-linking; chloride ion form; 200-400 mesh.

Wet volume capacity,
Cl form 0.6 meq/mL min. — Water retention capacity, Cl form 70 - 80%
Particle size: on 70 mesh
15% max. — Particle size: thru 270 mesh 15% max.

DOT NR

88591	100 G
88592	500 G
88593	1 KG

DOWEX® 1X4-50, ANION-EXCHANGE RESIN — ITEM 2667

Type I strong base anion exchange resin with 4% cross-linking; chloride ion form; 20-50 mesh.

Wet volume capacity,
Cl form 1.0 meq/ml min. — Water retention capacity, Cl form 50% min.
Particle size through 50 mesh 15% max.

DOT NR

88601	100 G
88602	500 G

DOWEX® 1X4-100, ANION-EXCHANGE RESIN — ITEM 2668

Type I strong base anion exchange resin with 4% cross-linking; chloride ion form; 50-100 mesh.

Wet volume capacity,
Cl form 1.0 meq/ml min. — Water retention capacity, Cl form 50% min.

CAS # 60267-37-0 DOT NR

88611	100 G
88612	500 G
88613	1 KG

D

DOWEX® 1X4-200, ANION-EXCHANGE RESIN — ITEM 2669

Type I strong base anion exchange resin with 4% cross-linking; chloride ion form; 100-200 mesh.

Wet volume capacity,
Cl form 1.0 meq/ml min. — Water retention capacity, Cl form 55 - 63%
Particle size on 60 mesh
15% max. — Particle size through 170 mesh 15% max.

DOT NR

88621	100 G
88622	500 G
88623	1 KG

DOWEX® 1X4-400, ANION-EXCHANGE RESIN — ITEM 2670

Type I strong base anion exchange resin with 4% cross-linking; chloride ion form; 200-400 mesh.

Wet volume capacity,
Cl form 1.0 meq/ml min. — Water retention capacity, Cl form 55 - 63%

DOT NR

88631	100 G
88632	500 G
88633	1 KG

DOWEX® 1X8-100, ANION-EXCHANGE RESIN — ITEM 2671

Type I strong base anion exchange resin with 8% cross-linking; chloride ion form; 50-100 mesh.

Wet volume capacity,
Cl form 1.2 meq/mL min. — Water retention capacity, Cl form 43 - 48%
Particle size on 35 mesh
15% max. — Particle size through 80 mesh 15% max.

CAS # 69011-19-4 DOT NR

88641	100 G
88642	500 G
88643	1 KG

DOWEX® 1X8-200, ANION-EXCHANGE RESIN — ITEM 2672

Type I strong base anion exchange resin with 8% cross-linking; chloride ion form; 100-200 mesh.

Wet volume capacity,
Cl form 1.2 meq/mL min. — Water retention capacity, Cl form 39 - 45%
Particle size: on 60 mesh
15% max. — Particle size: thru 170 mesh 15% max.

CAS # 29011-19-4 DOT NR

88651	100 G
88652	500 G
88653	1 KG

DOWEX® 1X8-400, ANION-EXCHANGE RESIN — ITEM 2673

Type I strong base anion exchange resin with 8% cross-linking; chloride ion form; 200-400 mesh.

Wet volume capacity,
Cl form 1.2 meq/mL min. — Water retention capacity, Cl form 39 - 45%
Particle size: on 100 mesh
15% max. — Particle size: thru 325 mesh 15% max.

CAS # 69011-19-4 DOT NR

88661	100 G
88662	500 G
88663	1 KG

DOWEX® HCR-W2, CATION-EXCHANGE RESIN — ITEM 2685

8% Cross-linking; 16-40 mesh; strongly acidic

DOT NR

88771	100 G
88772	500 G
88773	1 KG

DRIERITE®, 4 MESH — ITEM 2621

$CaSO_4$ F.W. 136.14

Identity (CaSO4) Pass test — Mesh size - Nominally 4 Mesh Pass test

CAS # 7778-18-9 DOT NR NFPA # 1-0-0

36351	1 LB
36352	12 X 1 LB
36353	5 LB
36354	4 X 5 LB

DRIERITE®, 6 MESH — ITEM 2623

$CaSO_4$ F.W. 136.14

Identity (CaSO4) Pass test — Mesh size - Nominally 6 Mesh Pass test

CAS # 7778-18-9 DOT NR NFPA # 1-0-0

36371	1 LB
36372	12 X 1 LB
36373	5 LB
36374	4 X 5 LB

DRIERITE®, 8 MESH — ITEM 2625

$CaSO_4$ F.W. 136.14

Identity (CaSO4) Pass test — Mesh size - Nominally 8 Mesh Pass test

CAS # 7778-18-9 DOT NR NFPA # 1-0-0

36391	1 LB
36392	12 X 1 LB
36393	5 LB
36394	4 X 5 LB

DRIERITE®, 10-20 MESH — ITEM 2627

$CaSO_4$ F.W. 136.14

Identity (CaSO4) Pass test Mesh size - Nominally 10-20 Mesh Pass test

CAS # 7778-18-9 DOT NR NFPA # 1-0-0

36411	1 LB
36412	12 X 1 LB
36413	5 LB
36414	4 X 5 LB

DRIERITE®, 20-40 MESH — ITEM 2629

$CaSO_4$ F.W. 136.14

Identity (CaSO4) Pass test Mesh size - Nominally 20-40 mesh - Pass test

CAS # 7778-18-9 DOT NR NFPA # 1-0-0

36431	1 LB
36432	12 X 1 LB
36433	5 LB
36434	4 X 5 LB

DRIERITE®, 4 MESH, INDICATING — ITEM 2622

Contains <2% cobalt chloride

$CaSO_4$ F.W. 136.14

Identity (CaSO4) Pass test Mesh size - Nominally 4 Mesh Pass test
Indicator (CoCl2) Pass test

CAS # 7778-18-9 DOT NR NFPA # 1-0-0

36361	1 LB
36362	12 X 1 LB
36363	5 LB
36364	4 X 5 LB

DRIERITE®, 6 MESH, INDICATING — ITEM 2624

Contains <2% cobalt chloride

$CaSO_4$ F.W. 136.14

Identity (CaSO4) Pass test Mesh size - Nominally 6 Mesh Pass test
Indicator (CoCl2) Pass test

CAS # 7778-18-9 DOT NR NFPA # 1-0-0

36381	1 LB
36382	12 X 1 LB
36383	5 LB
36384	4 X 5 LB

DRIERITE®, 8 MESH, INDICATING — ITEM 2626

Contains <2% cobalt chloride

$CaSO_4$ F.W. 136.14

Identity (CaSO4) Pass test Mesh size - Nominally 8 Mesh Pass test
Indicator (CoCl2) Pass test

CAS # 7778-18-9 DOT NR NFPA # 1-0-0

36401	1 LB
36402	12 X 1 LB
36403	5 LB
36404	4 X 5 LB

DRIERITE®, 10-20 MESH, INDICATING — ITEM 2628

Contains <2% cobalt chloride

$CaSO_4$ F.W. 136.14

Identity (CaSO4) Pass test Mesh size - Nominally 10-20 Mesh Pass test
Indicator (CoCl2) Pass test

CAS # 7778-18-9 DOT NR NFPA # 1-0-0

36421	1 LB
36422	12 X 1 LB
36423	5 LB
36424	4 X 5 LB

DTPA

See Diethylenetriaminepentaacetic Acid

DTTA

See Di-p-Toluoyl-L-Tartaric Acid

D

DYSPROSIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1731

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22310	100 ML
22312	500 ML

Specific Gravity 1.030

DYSPROSIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1730

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22300	100 ML
22302	500 ML

Specific Gravity 1.030

DYSPROSIUM ACETATE, 99.9% — ITEM A2796

$Dy(C_2H_3O_2)_3 \bullet 4H_2O$ F.W. 411.70

CAS # 18779-07-2 DOT NR

36551	25 G

DYSPROSIUM ACETYLACETONATE — ITEM 3812

Not on the TSCA inventory. For R&D use only.

$Dy(C_5H_7O_2)_3 \bullet XH_2O$ F.W. 459.83 (ANHYD.)

Dysprosium content (by EDTA titration) 33.0-35.5%

CAS # 18716-76-2 DOT NR

11111	10 G

DYSPROSIUM CARBONATE, 99.9% ITEM 1248

$Dy_2(CO_3)_3$ F.W. 505.03

Assay (metals basis) 99.9% min. Dysprosium 61.0-65.0%

CAS # 5066-34-2 DOT NR

36571 25 G

DYSPROSIUM CHLORIDE, HEXAHYDRATE, 99.99% ITEM 2209

$DyCl_3 \bullet 6H_2O$ F.W. 376.96

CAS # 15059-52-6 DOT NR

26082 5 G
26081 25 G

D

DYSPROSIUM CHLORIDE, HEXAHYDRATE, 99.9% ITEM 3563

$DyCl_3 \bullet 6H_2O$ F.W. 376.96

Assay (EDTA titration) 97% Assay (metals basis) 99.9%

CAS # 15059-52-6 DOT NR

36611 25 G
36612 100 G

DYSPROSIUM NITRATE, 99.999% ITEM A2826

$Dy(NO_3)_3 \bullet 5H_2O$ F.W. 438.60

Assay (metals basis) 99.999% min. Dysprosium content 35.5-38.5%

CAS # 10031-49-9 DOT 5.1/III

36662 5 G
36661 25 G

DYSPROSIUM NITRATE, 99.99% ITEM 2210

$Dy(NO_3)_3 \bullet 5H_2O$ F.W. 438.60

Assay (metals basis) 99.99% min Dysprosium content 35.5-38.5%

CAS # 10031-49-9 DOT 5.1/III

26092 5 G
26091 25 G

DYSPROSIUM NITRATE, 99.9% ITEM 2207

$Dy(NO_3)_3 \bullet 5H_2O$ F.W. 438.60

Assay (metals basis) 99.9% min. Dysprosium content 35.5-38.5%

CAS # 10031-49-9 DOT 5.1/III

26061 25 G
26062 100 G

DYSPROSIUM NITRATE, 99% ITEM A2820

$Dy(NO_3)_3 \bullet 5H_2O$ F.W. 438.60

Assay (metals basis) 99% min.

CAS # 10031-49-9 DOT 5.1/III

36651 100 G

DYSPROSIUM OXALATE, 99.9% ITEM 3817

$Dy(C_2O_4)_3 \bullet 10H_2O$ F.W. 769.23

Assay (metals basis) 99.9% Dysprosium content 20.0-22.2%

CAS # 867-62-9 DOT NR

11121 5 G
11122 25 G

DYSPROSIUM OXALATE, 99% ITEM A2829

$Dy(C_2O_4)_3 \bullet 10H_2O$ F.W. 769.23

Assay (metals basis) 99% min

CAS # 867-62-9 DOT NR

36681 50 G

DYSPROSIUM OXIDE, 99.999% ITEM A2838

Dy_2O_3 F.W. 373.00

Assay (metals basis) 99.999%

CAS # 1308-87-8 DOT NR NFPA # 1-0-0

36711 5 G

DYSPROSIUM OXIDE, 99.99% ITEM 2211

Dy_2O_3 F.W. 373.00

Assay (metals basis) 99.99%

CAS # 1308-87-8 DOT NR NFPA # 1-0-0

26102 5 G
26101 25 G

DYSPROSIUM OXIDE, 99.9% ITEM 573

Dy_2O_3 F.W. 373.00

Assay (metals basis) 99.9%

CAS # 1308-87-8 DOT NR NFPA # 1-0-0

36701 25 G
36702 100 G

DYSPROSIUM PERCHLORATE, CRYSTALLINE HYDRATE — ITEM 3830

Not on the TSCA inventory. Approximates octahydrate formulation at the time of packaging; ca 24% water. Packaged in vials under nitrogen. Reduced-moisture salt for catalyst applications.

$Dy(ClO_4)_3 \bullet XH_2O$ F.W. 460.86 + H2O

Dysprosium content (by EDTA) 26.5% min. Insoluble matter 0.01%
Sulfate 0.005% Iron 0.002%
Chloride 0.01% pH of 5% solution 1-3

CAS # 14017-53-9 DOT 5.1/II

11141 5 G
11142 25 G
11143 100 G

DYSPROSIUM PERCHLORATE, HYDRATED, SOLUTION, REAGENT — ITEM 523

$Dy(ClO_4)_3 \bullet 6H_2O$ F.W. 568.95

Dysprosium content 13.7-14.9% Insoluble 0.01%
Chloride 0.01%

CAS # 14692-17-2 DOT NR

36801 20 G
36802 50 G

DYSPROSIUM SULFATE, 99.9% — ITEM 2208

$Dy_2(SO_4)_3 \bullet 8H_2O$ F.W. 757.32

CAS # 14373-91-2 DOT NR

26071 25 G

DYSPROSIUM TITANATE, 99% — ITEM A2847

Highly calcined

$Dy_2(TiO_3)_3$ F.W. 612.63

Assay (Metals Basis) 99%

CAS # 68993-46-4 DOT NR

36831 25 G

DYSPROSIUM TRIFLATE

See Dysprosium Trifluoromethanesulfonate, 98%

DYSPROSIUM TRIFLUOROMETHANESULFONATE, 98% — ITEM 3526

Not on the TSCA inventory

$Dy(CF_3SO_3)_3$ F.W. 609.71

Assay 98%

CAS # 139177-62-1 DOT NR

36811 5 G
36812 25 G

EDTA

See Ethylenediaminetetraacetic Acid

EDTA, CALCIUM SALT

See Disodium Calcium Ethylenediaminetetraacetate

EDTA DIAMMONIUM SALT

See Diammonium Dihydrogen Ethylenediaminetetraacetate, Hydrate

EDTA, DIPOTASSIUM SALT

See Dipotassium Dihydrogen Ethylenediaminetetraacetic Acid, Dihydrate

EDTA, DISODIUM SALT

See Disodium Dihydrogen Ethylenediaminetetraacetate Dihydrate

EDTA, FERRIC SODIUM

See Ferric Sodium Ethylenediaminetetraacetate

EDTA SOLUTION

See Disodium Dihydrogen Ethylenediaminetetraacetate Solution, 0.1M

EGME

See 2-Methoxyethanol

EGTA

See Ethyleneglycol-Bis-(Aminoethylether)-Tetraacetic Acid

5,7-EICOSADIYNOIC ACID, 97% — ITEM 3124

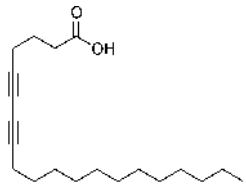
Not on the TSCA inventory.

$CH_3(CH_2)_{11}C{\equiv}CC{\equiv}C(CH_2)_3COOH$ F.W. 304.48

Assay 97% min. Melting point 64-65 C

CAS # 69288-29-5 DOT NR

81211 1 G
81212 5 G



5,7-EICOSADIYN-1-OL, 97% — ITEM 3125

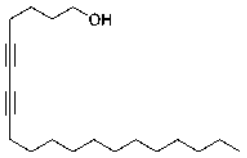
Not on the TSCA inventory.

$CH_3(CH_2)_{11}C{\equiv}CC{\equiv}C(CH_2)_3CH_2OH$ F.W. 290.49

Assay 97% min. Melting point 59-61 C

CAS # 174063-93-5 DOT 9/III

81221	1 G
81222	5 G
81223	25 G
81224	100 G



1-EICOSYNE, 95% — ITEM 5228

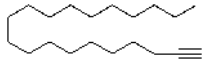
Not on the TSCA inventory.

$CH_3(CH_2)_{17}C{\equiv}CH$ F.W. 278.52

Assay (GC-FID), 94.0% min Identification by GC/MS - Conforms
Color - White to off-white Form - Crystal or powder

CAS # 765-27-5 DOT NR

14361	10 G
14362	50 G



ELECTRODE STORAGE SOLUTION, ACIDIC — ITEM 5526

Contains potassium hydrogen phthalate and potassium chloride and has a pH near 4.

pH 3.8-4.2

DOT NR

19481	500 ML
19482	4 L

ELECTRODE STORAGE SOLUTION, NEUTRAL — ITEM 5553

pH electrode storage solution. Contains potassium chloride and has a pH near 7.

pH 6.8-7.2

DOT NR

20371	500 ML
20372	4 L

ELECTROLYTE SOLUTION, ASTM D3227 6.9.1 — ITEM 1282

See also titration solvent.

Suitability - Pass Test

DOT 3/II NFPA # 1-3-0

74923	1 L
74921	4 L
74922	4 X 4 L

Specific Gravity 0.790

EOSIN Y, REAGENT (ACS) — ITEM 2458

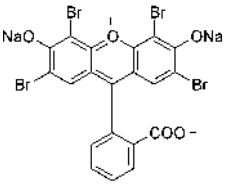
2',4',5',7'-Tetrabromofluorescein, Disodium Salt

$C_{20}H_6Br_4Na_2O_5$ F.W. 691.86

Clarity of aqueous solution - Pass test Suitability as adsorption indicator - Pass test

CAS # 17372-87-1 DOT NR NFPA # 1-0-0

36841	25 G
36842	100 G



EPICHLOROHYDRIN, 99% — ITEM 4563

$ClCH_2CH(O)CH_2$ F.W. 92.53

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 106-89-8 DOT 6.1/3/II

16022	500 G
16023	2 KG
16025	22 KG

Specific Gravity 1.182

cis-2,3-EPOXYBUTANE, 98% — ITEM 3126

Not on the TSCA inventory.

$CH_3(HCOCH)CH_3$ F.W. 72.11

Assay (GC-corrected for H2O), 97.5% min
H2O (KF), 2.5% max
Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 1758-33-4 DOT 3/II

81231	10 G
81232	50 G
81233	250 G
81234	1 KG

Specific Gravity 0.826

trans-2,3-EPOXYBUTANE, 97% — ITEM 3128

Racemic mixture of 2R,3R and 2S,3S forms

$CH_3(HCOCH)CH_3$ F.W. 72.11

Assay (GC-FID), 96.5% min
H2O (KF), 1.0% max
Clarity / Form - Clear, liquid
Identification by GC/MS - Conforms
Color - Colorless

CAS # 21490-63-1 DOT 3/II

81241	10 G
81242	50 G

Specific Gravity 0.804

2,3-EPOXYBUTANE, 98%, cis, trans mixture — ITEM 3129

$CH_3(HCOCH)CH_3$ F.W. 72.11

Assay 98% min.

CAS # 3266-23-7 DOT 3/II

81253	5 G
81251	25 G
81252	100 G

Specific Gravity 0.810

1,2-EPOXYPROPANE

See Propylene Oxide

ERBIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1733

Concentration 10,000 ± 100 ug/ml
NIST Traceable
Matrix: 5% Nitric acid

DOT 8/III

22330	100 ML
22332	500 ML

Specific Gravity 1.030

ERBIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1732

Concentration 1,000 ± 10 ug/ml
NIST Traceable
Matrix: 5% Nitric acid

DOT 8/III

22320	100 ML
22322	500 ML

Specific Gravity 1.030

ERBIUM ACETATE, TETRAHYDRATE, 99.9% — ITEM A2856

$Er(C_2H_3O_2)_3 \bullet 4H_2O$ F.W. 416.46

Assay (Metals basis) 99.9%
Erbium content 38.1-42.2%

CAS # 15280-57-6 DOT NR

36852	5 G
36851	25 G

ERBIUM ACETYLACETONATE, HYDRATED — ITEM 3850

Not on the TSCA inventory. For R&D use only.

$Er(C_5H_7O_2)_3 \bullet XH_2O$ F.W. 464.59 (ANHYD.)

Erbium content 34.2-37.0%

CAS # 70949-24-5 DOT NR

11151	5 G

ERBIUM CARBONATE, 99.9% — ITEM A2865

$Er_2(CO_3)_3 \bullet 4H_2O$ F.W. 586.62

Assay (metals basis) 99.9%

CAS # 6067-35-2 DOT NR

36872	5 G
36871	25 G

E

ERBIUM CHLORIDE, 99.99%, HEXAHYDRATE **ITEM 2214**

$ErCl_3 \bullet 6H_2O$ F.W. 381.72

Assay (Metals basis) 99.99% Erbium content (by EDTA) 41.5-46.0%

CAS # 10025-75-9 DOT NR

26132 5 G
26131 25 G

ERBIUM CHLORIDE, 99.9%, HEXAHYDRATE **ITEM A2871**

$ErCl_3 \bullet 6H_2O$ F.W. 381.72

Assay (Metals basis) 99.9% Erbium content (by EDTA) 41.5-46.0%
Insoluble 0.01%

CAS # 10025-75-9 DOT NR

36892 5 G
36891 25 G

ERBIUM FLUORIDE, 99.99%, LUMPS **ITEM A2880**

ErF_3 F.W. 224.25

CAS # 13760-83-3 DOT NR

36911 25 G

ERBIUM FLUORIDE, 99% **ITEM A2874**

$ErF_3 \bullet xH_2O$

CAS # 13760-83-3 DOT NR

36901 25 G

ERBIUM IODIDE, 99.9% **ITEM A2883**

$ErI_3 \bullet H_2O$ F.W. 565.98

CAS # 13813-42-8 DOT NR

36921 5 G

ERBIUM NITRATE, PENTAHYDRATE, 99.99% **ITEM 2213**

$Er(NO_3)_3 \bullet 5H_2O$ F.W. 443.36

Assay (metals basis) 99.99% Erbium content 36.0-39.5%

CAS # 10031-51-3 DOT 5.1/III NFPA # 1-0-1

26121 25 G

ERBIUM NITRATE, PENTAHYDRATE, 99.9% **ITEM A2889**

$Er(NO_3)_3 \bullet 5H_2O$ F.W. 443.36

Assay (metals basis) 99.9% min. Erbium content 36.0-39.5%

CAS # 10031-51-3 DOT 5.1/III NFPA # 1-0-1

36951 25 G
36952 100 G

ERBIUM NITRATE, PENTAHYDRATE, 99% **ITEM A2886**

$Er(NO_3)_3 \bullet 5H_2O$ F.W. 443.36

Assay (metals basis) 99% min Erbium content 36.0-39.5%

CAS # 10031-51-3 DOT 5.1/III

36942 25 G
36941 100 G

ERBIUM OXALATE, 99.99% **ITEM A2898**

$Er_2(C_2O_4)_3 \bullet 10H_2O$ F.W. 778.75

CAS # 30618-31-6 DOT NR

36971 25 G

ERBIUM OXALATE, 99.9% **ITEM A2895**

$Er_2(C_2O_4)_3 \bullet 10H_2O$ F.W. 778.75

CAS # 30618-31-6 DOT NR

36961 25 G

ERBIUM OXIDE, 99.999% **ITEM A2910**

Er_2O_3 F.W. 382.52

Assay (metals basis) 99.999% min.

CAS # 12061-16-4 DOT NR

37021 5 G

ERBIUM OXIDE, 99.99% **ITEM A2907**

Er_2O_3 F.W. 382.52

CAS # 12061-16-4 DOT NR

37012 5 G
37011 25 G

ERBIUM OXIDE, 99.9% — ITEM 574

Er_2O_3 F.W. 382.52

Assay (metals basis) 99.9% min Loss on ignition @ 600 C 0.5%

CAS # 12061-16-4 DOT NR

37001 25 G
37002 100 G

ERBIUM OXIDE, 99% — ITEM A2901

Er_2O_3 F.W. 382.52

Assay (metals basis) 99% min Loss on ignition @ 600 C 0.5%

CAS # 12061-16-4 DOT NR

36991 25 G

ERBIUM OXYFLUORIDE, 99.99% — ITEM A2911

ErOF F.W. 202.26

Assay (REO metals basis) 99.99%

CAS # 13825-13-3 DOT NR

37051 10 G

ERBIUM PERCHLORATE, HYDRATED, SOLUTION, REAGENT — ITEM 524

Not on TSCA inventory.

$Er(ClO_4)_3 \bullet 6H_2O$ F.W. 573.70

Erbium content 14.0-15.2% Insoluble 0.01%
Chloride 0.01%

CAS # 14692-15-0 DOT NR

37101 20 G
37102 50 G

Specific Gravity 1.460

ERBIUM PHOSPHATE, 99.9% — ITEM A2913

$ErPO_4 \bullet xH_2O$

CAS # 14298-38-5 DOT NR

37151 10 G

ERBIUM SULFATE, 99.9% — ITEM 2212

$Er_2(SO_4)_3 \bullet 8H_2O$ F.W. 766.85

CAS # 13478-49-4 DOT NR

26111 25 G

ERBIUM SULFATE, 99% — ITEM A2916

$Er_2(SO_4)_3 \bullet 8H_2O$ F.W. 766.85

Assay (metals basis) 99% min. Erbium content 41.5 - 45.5%

CAS # 13478-49-4 DOT NR

37201 25 G

ERBIUM TRIFLATE

See Erbium Trifluoromethanesulfonate, 98%

ERBIUM TRIFLUOROACETATE — ITEM 3477

Not on the TSCA inventory. X hydrate is approximately 3.

$Er(OOCCF_3)_3 \bullet XH_2O$ F.W. 506.31

Assay (metals basis) 99.9% Assay (as anhydrous salt) 87.6-93.1%

CAS # 70236-99-6 DOT NR

11181 5 G
11182 25 G

ERBIUM TRIFLUOROMETHANESULFONATE, 98% — ITEM 3527

Not on the TSCA inventory

$Er(CF_3SO_3)_3$ F.W. 614.47

Assay 98%

CAS # 139177-64-3 DOT NR

37291 5 G
37292 25 G

ERIOCHROME BLACK T, REAGENT (ACS) — ITEM 246

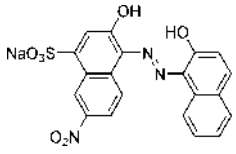
F-241; C.I. 14645; Erio T. Indicator for the determination of calcium plus magnesium by titration with EDTA.

$HOC_{10}H_6N{=}NC_{10}H_4(OH)(NO_2)SO_3Na$ F.W. 461.38

Clarity of solution-Pass test Suitability as complexometric indicator-Pass test

CAS # 1787-61-7 DOT NR NFPA # 2-1-1

37302 100 G



E

ERIOCHROME BLACK T, 0.1% AQUEOUS SOLUTION — ITEM 9834

$HOC_{10}H_6N{=}NC_{10}H_4(OH)(NO_2)SO_3Na$ F.W. 461.38

Suitability as complexometric indicator-Pass test

CAS # 1787-61-7 DOT NR

Please Inquire For Sizes

ERIOCHROME BLUE BLACK R — ITEM 275

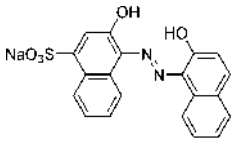
F-240; C.I. 15705; Calcon. Indicator for the titration of calcium with EDTA.

$HOC_{10}H_6N{=}NC_{10}H_5(OH)SO_3Na$ F.W. 416.40

Suitability as an indicator - Pass Test

CAS # 2538-85-4 DOT NR NFPA # 2-1-1

37402 25 G



ERIOGLAUCINE — ITEM 140

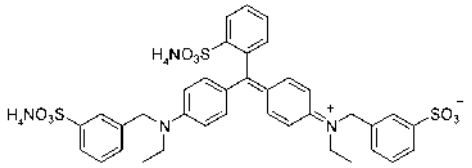
Indicator for cerate oxidimetry. Complex triphenylmethane derivative.

$C_{37}H_{34}N_2O_9S_3(NH_4)_2$ F.W. 782.95

Suitability as indicator - Pass test

CAS # 2650-18-2 DOT NR

37502 25 G
37503 100 G



ERIOGREEN — ITEM 141

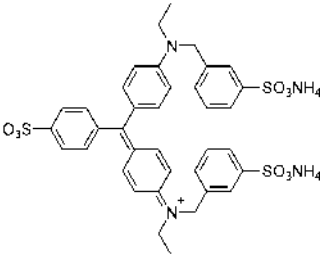
Indicator for cerate oxidimetry. Complex triphenylmethane derivative.

$C_{37}H_{34}N_2O_9S_3(NH_4)_2$ F.W. 782.95

Suitability as Indicator Pass Test

CAS # 12768-78-4 DOT NR

37601 25 G
37602 100 G



ERIO T

See Eriochrome Black T

ETCHANT

See GFS Etchant Formula 10

ETHANAL

See Acetaldehyde

ETHANEDIOIC ACID

See Oxalic Acid, Dihydrate

ETHANEDIOIC ACID, AMMONIUM SALT

See Ammonium Oxalate

ETHANOL

See Alcohol Reagent, Anhydrous

ETHANOLAMINE

See 2-Aminoethanol, Reagent (ACS)

ETHER

See Ethyl Ether

ETHOXYACETYLENE

See Ethyl Ethynyl Ether, 50% (W/W)

2-ETHOXYETHANOL, 99% ITEM 5411

$CH_3CH_2OCH_2CH_2OH$ F.W. 90.12

Assay (GC-FID), 98.5% min
Identification by GC/MS - Conforms

CAS # 110-80-5 DOT 3/III

16031 500 ML
16032 2.5 L

2-(2-ETHOXYETHOXY)ETHANOL

See Diethylene Glycol Monoethyl Ether, 99%

3-(1-ETHOXYETHOXY)PROPYNE

See (±)-Acetaldehyde Ethyl Propargyl Acetal

ETHYL ACETATE, VERITAS® ULTIMATE ITEM 5566

$CH_3COOCH_2CH_3$ F.W. 88.11

Assay 99.90%
ECD responsive substances 5 pg/ml max peak
Residue after evaporation 0.0001%
Color (APHA) 10 max
Titrable acid 0.0008 meq/g
Fluorescence (as quinine base) 500 ppt
UV cut-off 254 nm
UV at 257 nm 0.40 max
UV at 265 nm 0.05 max
UV at 280 nm 0.02 max
UV at 300 nm 0.01 max
Water 0.02% max

CAS # 141-78-6 DOT 3/II NFPA # 2-4-0

18041 4 L
18042 4 X 4 L

Specific Gravity 0.902

ETHYL ACETATE, DISTILLED IN GLASS ITEM 1237

Suitable for pesticide analysis, gas chromatography, liquid chromatography and ultraviolet spectrophotometry.

$CH_3COOCH_2CH_3$ F.W. 88.11

Assay (GLC) 99.6% min.
Chlorinated hydrocarbon residue 10 pg/ml
Residue after evaporation 0.0003%
Water 0.05%

CAS # 141-78-6 DOT 3/II NFPA # 2-4-0

38363 1 L
38364 6 X 1 L
38361 4 L
38362 4 X 4 L

Specific Gravity 0.902

ETHYL ACETATE, HPLC ITEM 2488

Meets ACS UV Spectrophotometry Specifications

$CH_3COOCH_2CH_3$ F.W. 88.11

Assay 99.5% min.
Optical absorbance @ 255 nm 1.00
Optical absorbance @ 257 nm 0.50
Optical absorbance @ 263 nm 0.10
Optical absorbance @ 275 nm 0.05
Optical absorbance 330-400 nm 0.01
Residue after evaporation 0.001%
Titrable acid 0.0009 meq/g
Color (APHA) 10 max
Water 0.05%
Substances darkened by sulfuric acid - pass test

CAS # 141-78-6 DOT 3/II NFPA # 2-4-0

38341 1 L
38342 6 X 1 L
38343 4 L
38344 4 X 4 L

Specific Gravity 0.902

ETHYL ACETATE, REAGENT (ACS) ITEM 918

$CH_3COOCH_2CH_3$ F.W. 88.11

Assay 99.5% min.
Color (APHA) 10 max.
Residue after evaporation 0.003%
Water 0.2%
Titrable acid 0.0009 meq/g
Substances darkened by sulfuric acid-pass test

CAS # 141-78-6 DOT 3/II NFPA # 2-4-0

38354 1 L
38355 6 X 1 L
38352 4 L
38353 4 X 4 L

Specific Gravity 0.902

ETHYL ACETOACETATE, 99% ITEM 5412

A mixture of tautomers

$CH_3C(O)CH_2COOCH_2CH_3$ F.W. 130.14

Assay (GC by Derivatization), Isomer sum 98.5% min
Identification by GC/MS - Conforms
Color - Colorless to light yellow
Clarity / Form - Clear, liquid

CAS # 141-97-9 DOT NR

16041 100 G
16042 500 G
16043 2 KG

ETHYL ACETYLENE

See 1-Butyne

ETHYL ALCOHOL

See Alcohol Reagent, Anhydrous

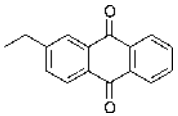
2-ETHYLANTHRAQUINONE, 97% ITEM 2744

$C_{16}H_{12}O_2$ F.W. 236.27

Assay 97% min.

CAS # 84-51-5

38391	100 G
38392	500 G



ETHYL BROMIDE

See Bromoethane, 98%

E

ETHYL-2-BUTYNOATE, 98% ITEM 3132

Not on the TSCA inventory.

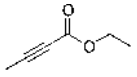
$CH_3C{\equiv}CCOOC_2H_5$ F.W. 112.14

Assay (GC-FID), 97.5% min
Color - Colorless to yellow
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 4341-76-8 DOT NR

81281	10 G
81282	50 G
81283	500 G
81284	3 KG

Specific Gravity 0.962

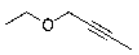


ETHYL-2-BUTYNYL ETHER ITEM 3863

Not on the TSCA inventory.

$C_2H_5OCH_2C{\equiv}CCH_3$ F.W. 98.15

Please Inquire For Sizes



ETHYLDIGLYCOL

See Diethylene Glycol Monoethyl Ether, 99%

ETHYL DIGLYME

See Diethylene Glycol Diethyl Ether

ETHYLENE CARBONATE, REAGENT ITEM 2511

1,3-Dioxolan-2-one; Glycol Carbonate

$C_3H_4O_3$ F.W. 88.07

Assay (GC-FID), 98.0% min

CAS # 96-49-1 DOT NR NFPA # 2-1-1

83991	500 G
83992	2.5 KG

Specific Gravity 1.321

ETHYLENEDIAMINE, ANHYDROUS ITEM 231

Solvent for nonaqueous titration of acids.

$H_2NCH_2CH_2NH_2$ F.W. 60.10

Assay 99% min.
Heavy Metals (Pb) 0.001%
Density at 25C 0.89

CAS # 107-15-3 DOT 8/3/II NFPA # 3-3-2

38401	500 ML
38402	2.5 L
38403	6 X 500 ML
38404	4 X 2.5 L

Specific Gravity 0.902

ETHYLENEDIAMINETETRAACETIC ACID, REAGENT (ACS) ITEM 689

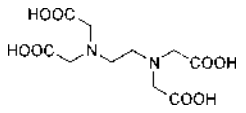
Ethylenedinitrilotetraacetic Acid, EDTA

$C_{10}H_{16}N_2O_8$ F.W. 292.25

Assay 99.4-100.6%
Nitrilotriacetic acid 0.1%
Heavy metals (as Pb) 0.001%
Calcium 0.001%
Insoluble in dilute NH4OH 0.005%
Residue after ignition 0.2%
Iron 0.005%
Magnesium 0.0005%

CAS # 60-00-4 DOT NR NFPA # 1-1-0

38500	100 G
38501	500 G
38502	2.5 KG
38503	10 KG
38504	50 KG



ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT

See Disodium Dihydrogen Ethylenediaminetetraacetate Dihydrate

ETHYLENEDIAMMONIUM FERROUS SULFATE

See Ferrous Ethylenediammonium Sulfate

ETHYLENEDINITRILOTETRAACETIC ACID

See Ethylenediaminetetraacetic Acid

ETHYLENE GLYCOL, REAGENT ITEM 920

$HOCH_2CH_2OH$ F.W. 62.07

Boiling range 194-200 C
Acidity (CH3COOH) 0.01%
Residue after evaporation 0.005%
Iron 0.00002%
Specific gravity @ 20 C 1.113-1.116
Water 0.2%
Chloride 0.0005%

CAS # 107-21-1 DOT NR NFPA # 2-1-1

38581	500 ML
38582	4 L
38583	4 X 4 L
38585	208 L

Specific Gravity 1.113

ETHYLENEGLYCOL-bis-(AMINOETHYLETHER)-TETRAACETIC ACID, HIGH PURITY (EGTA) ITEM 5612

$(HO_2CCH_2)_2NC_2H_4OC_2H_4OC_2H_4N(CH_2CO_2H)_2$

F.W. 380.35

CAS # 67-42-5 DOT NR

19191	25 G
19192	100 G
19193	500 G

ETHYLENEGLYCOL-bis-(AMINOETHYLETHER)-TETRAACETIC ACID, REAGENT (EGTA) ITEM 330

Reagent for complexometric titrations.

$(HO_2CCH_2)_2NC_2H_4OC_2H_4OC_2H_4N(CH_2CO_2H)_2$

F.W. 380.35

Assay 95% min.
Loss on drying 2.0% max
Suitability for complexiometry Pass Test

CAS # 67-42-5 DOT NR

38603	25 G
38601	100 G
38602	500 G

ETHYLENE GLYCOL DIMETHYL ETHER

See 1,2-Dimethoxyethane

ETHYLENE GLYCOL MONOBUTYL ETHER

See 2-Butoxyethanol, 99%

ETHYLENE GLYCOL MONOETHYL ETHER

See 2-Ethoxyethanol, 99%

ETHYLENEGLYCOLMONOMETHYL ETHER

See 2-Methoxyethanol

ETHYL ETHER, VERITAS® ULTIMATE ITEM 1238

Suitable for pesticide analysis, gas chromatography and ultraviolet spectrophotometry. Stabilized with ethanol 2%

$(C_2H_5)_2O$ F.W. 74.12

Assay (GLC) excl. preservative 99.5% min.
Residue after evaporation 0.0003%
UV Absorbance at 215 nm 1.00 max
UV Absorbance at 254 nm 0.08 max
UV Absorbance at 300 nm 0.005 max
Chlorinated hydrocarbon residue 10 pg/ml
Water 0.03%
UV Absorbance at 230 nm 0.30 max
UV Absorbance at 280 nm 0.01 max

CAS # 60-29-7 DOT 3/I NFPA # 2-4-2

38723	1 L
38724	6 X 1 L
38721	4 L
38722	4 X 4 L

Specific Gravity 0.710

ETHYL ETHER, ANHYDROUS, REAGENT (ACS) ITEM 916

Stablilzed with 2,6-di-tert-butyl-p-cresol 0.0001%

$(C_2H_5)_2O$ F.W. 74.12

Assay 99.0% min.
Peroxide 0.0001%
Titrable acid 0.0002 meq/g
Water 0.03%
Stabilizer - BHT about 0.0001%
Color (APHA) 10 max.
Residue after evaporation 0.001%
Carbonyl (as HCHO) 0.001%
Alcohol-pass test

CAS # 60-29-7 DOT 3/I NFPA # 2-4-2

38702	1 L
38706	6 X 1 L
38704	4 L
38705	4 X 4 L
38707	1 L AL BOT
38708	6 X 1 L AL
38709	4 L AL BOT
38706	4 X 4 L AL

Specific Gravity 0.710

ETHYL ETHER, REAGENT (ACS) — ITEM 917

Stabilized with ethanol 2%, water 0.5% and BHT 0.0001%

$(C_2H_5)_2O$ F.W. 74.12

Assay 98.0% min.
Peroxide 0.0001%
Titrable acid 0.0002 meq/g
Stabilizer - 2% alcohol, 0.5% water
Color (APHA) 10 max.
Residue after evaporation 0.001%
Carbonyl (as HCHO) 0.001%

CAS # 60-29-7 DOT 3/I NFPA # 2-4-2

38713	1 L
38715	6 X 1 L
38714	4 L
38717	4 X 4 L
38716	1 L AL BOT
38718	6 X 1 L AL
38719	4 L AL BOT
38715	4 X 4 L AL

Specific Gravity 0.710

ETHYL ETHYNYL ETHER, 50% (W/W), In HEXANES — ITEM 3134

WARNING: Reported to undergo explosive decomposition if heated above its boiling point to 100 C. Requires refrigeration. Not on the TSCA inventory.

$HC{\equiv}COCH_2CH_3$ F.W. 70.09

Assay (GC with correction factor), 48.0% min
Color - Colorless to amber
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 927-80-0 DOT 3/II

81301	10 G
81302	50 G
81303	250 G
81305	750 G
81306	2 KG

Specific Gravity 0.802

ETHYL GLYCOL

See 2-Ethoxyethanol, 99%

ETHYL 6-HEPTEN-2-YNOATE, 95% — ITEM 5199

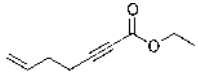
Not on the TSCA inventory

$CH_2{=}CHCH_2CH_2C{\equiv}CCOOCH_2CH_3$ F.W. 152.19

Assay (GC-FID), 94.0% min
Appearance - Clear, colorless to yellow liquid
Identification by GC/MS - Conforms

DOT NR

Please Inquire For Sizes



3-ETHYL-1-HEPTYNE, 98% — ITEM 5515

Not on the TSCA inventory.

C_9H_{16} F.W. 124.22

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 55944-43-9 DOT 3/II

Please Inquire For Sizes

Specific Gravity 0.750

ETHYL 2-HEPTYNOATE, 98% — ITEM 3136

Not on the TSCA inventory.

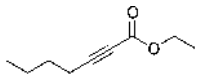
$CH_3(CH_2)_3C{\equiv}CCOOC_2H_5$ F.W. 154.21

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless to yellow liquid
Identification by GC/MS - Conforms

CAS # 16930-95-3 DOT NR

81321	10 G
81322	50 G

Specific Gravity 0.916



ETHYL 6-HEPTYNOATE, 97% — ITEM 5481

Not on the TSCA inventory.

$HC{\equiv}C(CH_2)_4COOC_2H_5$ F.W. 154.21

Assay (GC-FID), 96.5% min
Appearance - Clear, colorless to yellow liquid
Identification by GC/MS - Conforms

CAS # 105339-02-4 DOT NR

17731	5 G

2-ETHYLHEXANOIC ACID, 99% — ITEM 4662

$CH_3(CH_2)_3CH(CH_2CH_3)COOH$ F.W. 144.21

Assay (GC-FID), 98.5% min
Identification by GC/MS - Conforms

CAS # 149-57-5 DOT NR

16051	100 ML
16052	500 ML
16053	2 L
16054	4 L
16055	20 L

Specific Gravity 0.903

ETHYL 2-HEXYNOATE, 98% — ITEM 3386

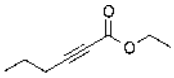
Not on the TSCA inventory.

$CH_3(CH_2)_2C{\equiv}CCOOCH_2CH_3$ F.W. 140.19

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 16205-90-6 DOT 9/III

83851	10 G
83852	50 G



ETHYL 5-HEXYNOATE — ITEM 5499

Not on the TSCA inventory.

$HC{\equiv}C(CH_2)_3COOCH_2CH_3$ F.W. 140.18

Assay

CAS # 108545-38-6 DOT 3/III

Please Inquire For Sizes

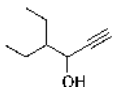
4-ETHYL-1-HEXYN-3-OL — ITEM 3864

Not on the TSCA inventory.

$(CH_3CH_2)_2CHCH(OH)C{\equiv}CH$ F.W. 126.20

CAS # 51277-03-3

Please Inquire For Sizes



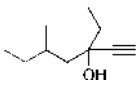
ETHYLISOPROPYLACETYLENE

See 2-Methyl-3-Hexyne

3-ETHYL-5-METHYL-1-HEPTYN-3-OL — ITEM 3865

Not on the TSCA inventory.

$C_2H_5CH(CH_3)CH_2C(OH)(C_2H_5)C{\equiv}CH$ F.W. 154.26



ETHYL METHYL KETONE

See Methyl Ethyl Ketone

ETHYL 2-OCTYNOATE, 98% — ITEM 3137

$CH_3(CH_2)_4C{\equiv}CCOOC_2H_5$ F.W. 168.24

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms

CAS # 10519-20-7 DOT NR

81333	5 G
81331	25 G
81332	100 G

Specific Gravity 0.910

ETHYL 7-OCTYNOATE, 98% — ITEM 5546

$HC{\equiv}C(CH_2)_5COOC_2H_5$ F.W. 168.23

Assay(GC-FID) 97.5% min.

CAS # 108545-39-7

Please Inquire For Sizes

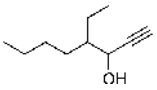
4-ETHYL-1-OCTYN-3-OL — ITEM 3866

$CH_3(CH_2)_3CH(C_2H_5)CH(OH)C{\equiv}CH$ F.W. 154.26

CAS # 5877-42-9 DOT NR NFPA # 2-2-0

Please Inquire For Sizes

Specific Gravity 0.870



ETHYL 2-PENTYNOATE, 98% — ITEM 3139

Not on the TSCA inventory.

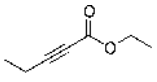
$CH_3CH_2C{\equiv}CCOOC_2H_5$ F.W. 126.16

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Color - Colorless to yellow Clarity / Form - Clear, liquid

CAS # 55314-57-3 DOT 3/III NFPA # 2-2-0

81351	10 G
81352	50 G
81353	500 G
81354	3.5 KG
81355	17.5 KG
81356	55 KG
81357	190 KG

Specific Gravity 0.957



E

ETHYL 4-PENTYNOATE — ITEM 5497

Not on the TSCA inventory.

$HC{\equiv}CCH_2CH_2COOCH_2CH_3$ F.W. 126.15

Assay

CAS # 63093-41-4

Please Inquire For Sizes

ETHYL 3-PHENYLPROPIOLATE, 98% — ITEM 3140

Not on the TSCA inventory.

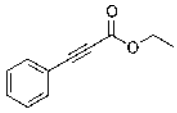
$C_6H_5C{\equiv}CCOOC_2H_5$ F.W. 174.20

Assay (GC-FID), 97.5% min
Color - Colorless to bright yellow
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 2216-94-6 DOT 9/III

81361	10 G
81362	50 G

Specific Gravity 1.055



ETHYL PROPIOLATE, 98% — ITEM 3141

Not on the TSCA inventory.

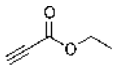
$HC{\equiv}CCOOC_2H_5$ F.W. 98.10

Assay (GC-FID), 97.5% min
Color - Colorless to light yellow
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 623-47-2 DOT 3/II

81371	10 G
81372	50 G

Specific Gravity 0.968



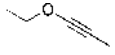
ETHYL 1-PROPYNYL ETHER — ITEM 3867

Not on the TSCA inventory

$CH_3CH_2OC{\equiv}CCH_3$ F.W. 84.11

CAS # 14273-06-4

Please Inquire For Sizes



ETHYL TETROLATE

See Ethyl-2-Butynoate

ETHYL 2-(TRIMETHYLSILYL) ACETATE, 97% — ITEM 3144

Not on the TSCA inventory.

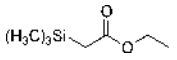
$(CH_3)_3SiCH_2CO_2CH_2CH_3$ F.W. 160.29

Assay 97% min.

CAS # 4071-88-9 DOT 3/II

81401	10 G
81402	50 G

Specific Gravity 0.876



ETHYL 3-(TRIMETHYLSILYL) PROPIOLATE, 98% — ITEM 3146

Not on the TSCA inventory.

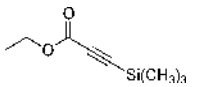
$(CH_3)_3SiC{\equiv}CCOOCH_2CH_3$ F.W. 170.28

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 16205-84-8 DOT 9/III

81421	10 G
81422	50 G
81423	250 G
81424	1 KG

Specific Gravity 0.897



ETHYL VINYL ETHER, 99% — ITEM 3412

Lachrymator

$CH_3CH_2OCH{=}CH_2$ F.W. 72.11

Assay (GC-FID), 98.5% min

CAS # 109-92-2 DOT 3/I

89651	200 ML
89652	1 L
89653	19 L

Specific Gravity 0.753

4-ETHYNYLACETOPHENONE

See 4-Acetylphenylacetylene, 98%

3-ETHYNYLACETOPHENONE

See 3-Acetylphenylacetylene, 98%

1-ETHYNYLADAMANTANE ITEM 5329

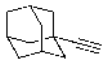
Not on the TSCA inventory.

$C_{12}H_{16}$ F.W. 160.26

Assay (GC-FID), Report % Identification by GC/MS - Conforms

CAS # 40430-66-8 DOT NR

Please Inquire For Sizes



4-ETHYNYLANILINE, 99% ITEM 5378

Not on the TSCA inventory.

$H_2NC_6H_4C{\equiv}CH$ F.W. 117.15

Assay 99.0% Water (by KF) 0.3%

CAS # 14235-81-5 DOT NR

20331	5 G
20332	25 G

4-ETHYNYLANISOLE, 98% ITEM 3464

Not on the TSCA inventory.

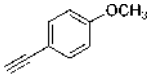
$CH_3OC_6H_4C{\equiv}CH$ F.W. 132.16

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to amber liquid

CAS # 768-60-5 DOT NR

33821	5 G
33822	25 G

Specific Gravity 1.019



ETHYNYLBENZENE

See Phenylacetylene, 98+%

4-ETHYNYLCHLOROBENZENE

See 4-Chlorophenylacetylene

ETHYNYLCYCLOHEXANE

See Cyclohexylacetylene

1-ETHYNYL-1-CYCLOHEXANOL, 99% ITEM 3147

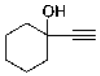
$C_6H_{10}(OH)C{\equiv}CH$ F.W. 124.18

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms
Appearance - White to off-white solid when <32 C

CAS # 78-27-3 DOT 9/III

81431	100 G
81432	500 G

Specific Gravity 0.973



1-ETHYNYLCYCLOHEXYLAMINE, 98% ITEM 3148

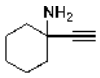
$H_2NC_6H_{10}C{\equiv}CH$ F.W. 123.20

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to amber liquid

CAS # 30389-18-5 DOT 8/3/II

Please Inquire For Sizes

Specific Gravity 0.913



ETHYNYLCYCLOPENTANE

See Cyclopentylacetylene, 90+%

1-ETHYNYL-1-CYCLOPENTANOL, 98+% ITEM 3149

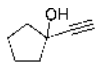
$C_5H_8(OH)C{\equiv}CH$ F.W. 110.16

Assay (GC-FID), 98.0% min Identification by GC/MS - Conforms
Appearance - Colorless to yellow liquid/solid

CAS # 17356-19-3 DOT 3/III

81453	5 G
81451	25 G
81452	100 G

Specific Gravity 0.962



ETHYNYL CYCLOPROPANE

See Cyclopropyl Acetylene, 98%

E

9-ETHYNYL-9-FLUORENOL, 97% ITEM 3150

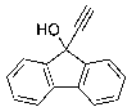
Not on the TSCA inventory.

$C_{13}H_8(OH)C{\equiv}CH$ F.W. 206.25

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Appearance - White to yellow solid / crystal

CAS # 13461-74-0 DOT 9/III

81461 10 G
81462 50 G



4-ETHYNYLFLUOROBENZENE

See 4-Fluorophenylacetylene

1-ETHYNYL-4-METHOXYBENZENE

See 4-Ethynylanisole, 98%

4-ETHYNYL-N,N-DIMETHYLAMINOBENZENE

See 4-Dimethylaminophenylacetylene

3-ETHYNYLPHENOL, 95% ITEM 3204

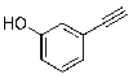
Not on the TSCA inventory.

$HOC_6H_4C{\equiv}CH$ F.W. 118.14

Assay (GC-FID), 94% min Identification by GC/MS - Conforms

CAS # 10401-11-3 DOT 8/6.1/II

81991 2 G
81992 10 G



4-ETHYNYLPHENOL ITEM 3887

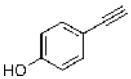
Not on the TSCA inventory.

$HOC_6H_4C{\equiv}CH$ F.W. 118.14

Assay 95%

CAS # 2200-91-1 DOT 8/6.1/II

Please Inquire For Sizes



4-ETHYNYLPHENYL ACETATE, 98% ITEM 3497

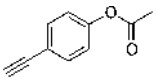
Not on the TSCA inventory.

$CH_3COOC_6H_4C{\equiv}CH$ F.W. 160.17

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - White to orange crystal/solid

CAS # 16141-18-7 DOT NR

12691 1 G
12692 5 G



2-ETHYNYLPYRIDINE, 98+% ITEM 3151

Inhibited with 0.01% hydroquinone. Not on the TSCA inventory.

$C_5H_4NC{\equiv}CH$ F.W. 103.12

Assay (GC-FID), 98.0% min Inhibitor 0.01% hydroquinone
Identification by GC/MS - Conforms

CAS # 1945-84-2 DOT NR

81471 5 G
81472 25 G

Specific Gravity 0.940

2-ETHYNYLTHIOPHENE, 97% ITEM 3685

Not on the TSCA inventory.

$C_4H_3SC{\equiv}CH$ F.W. 108.16

Assay 97%

CAS # 4298-52-6 DOT 3/III

Please Inquire For Sizes

Specific Gravity 1.080

3-ETHYNYLTHIOPHENE ITEM 5331

Not on the TSCA inventory.

$C_4H_3SC{\equiv}CH$ F.W. 108.16

Assay (report)

CAS # 67237-53-0 DOT 3/III

Please Inquire For Sizes

2-ETHYNYLTOLUENE, 97% ITEM 5332

Not on the TSCA inventory.

$CH_3C_6H_4C{\equiv}CH$ F.W. 116.15

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to amber liquid

CAS # 766-47-2 DOT 3/III

Please Inquire For Sizes

3-ETHYNYLTOLUENE, 97% ITEM 5333

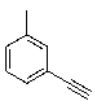
Not on the TSCA inventory.

$CH_3C_6H_4C{\equiv}CH$ F.W. 116.15

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 766-82-5 DOT 3/III

Please Inquire For Sizes



4-ETHYNYLTOLUENE, 97% ITEM 3152

Not on the TSCA inventory.

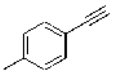
$CH_3C_6H_4C{\equiv}CH$ F.W. 116.15

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to amber liquid

CAS # 766-97-2 DOT 3/III

81483 5 G
81481 25 G
81482 100 G

Specific Gravity 0.916



EUROPIUM, 10,000 ppm ICP STANDARD SOLUTION ITEM 1735

Concentration 10,000 ± 100 ug/ml Matrix: 5% nitric acid
NIST Traceable

DOT 8/III

22350 100 ML
22352 500 ML

Specific Gravity 1.030

EUROPIUM, 1,000 ppm ICP STANDARD SOLUTION ITEM 1734

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III

22340 100 ML
22342 500 ML

Specific Gravity 1.030

EUROPIUM ACETATE, 99.9% ITEM A3018

$Eu(C_2H_3O_2)_3{\bullet}xH_2O$

CAS # 62667-64-5 DOT NR

38761 5 G

EUROPIUM ACETYLACETONATE, HYDRATED ITEM 3891

Not on the TSCA inventory. For R&D use only.

$Eu(C_5H_7O_2)_3{\bullet}XH_2O$ F.W. 449.29

Europium content (by EDTA) Water content

CAS # 22533-93-3 DOT NR

11271 1 G
11272 5 G

E

EUROPIUM CARBONATE, 99.9% — ITEM 1249

$Eu_2(CO_3)_3 \bullet xH_2O$

Assay (metals basis) 99.9%

CAS # 5895-48-7 DOT NR

38771 5 G

EUROPIUM CHLORIDE, 99.9%, ANHYDROUS — ITEM 3910

$EuCl_3$ F.W. 258.32

Europium content (by EDTA) 54.6-60.0% Assay (metals basis) 99.9%

CAS # 10025-76-0 DOT NR

11281 1 G
11282 10 G

EUROPIUM CHLORIDE, HEXAHYDRATE 99.9% — ITEM A3039

$EuCl_3 \bullet 6H_2O$ F.W. 366.41

Assay (metals basis) 99.9% Europium content (EDTA titration) 39.4-43.5%

CAS # 13759-92-7 DOT NR

38781 5 G
38782 25 G

EUROPIUM FLUORIDE, 99.99% ANHYDROUS — ITEM A3051

EuF_3 F.W. 208.95

Assay (Metals Basis) 99.99% min

CAS # 13765-25-8 DOT NR

38811 1 G
38812 5 G

EUROPIUM MAGNESIUM NITRATE, 99.9% — ITEM A3060

$2Eu(NO_3)_3 \bullet Mg(NO_3)_2 \bullet xH_2O$

CAS # 108775-01-5 DOT 5.1/III

38831 10 G

EUROPIUM NITRATE, 99.99% — ITEM 3577

$Eu(NO_3)_3 \bullet 6H_2O$ F.W. 446.08

Europium content (by EDTA titration) Assay (metals basis) 99.99%

CAS # 10031-53-5

38861 1 G
38862 5 G
38863 25 G

EUROPIUM NITRATE, 99.9% — ITEM A3066

$Eu(NO_3)_3 \bullet 6H_2O$ F.W. 446.08

Assay (metals basis) 99.9% min

CAS # 10031-53-5 DOT 5.1/III

38842 2 G
38841 10 G
38843 25 G

EUROPIUM OXALATE, 99.9% — ITEM A3075

$Eu_2(C_2O_4)_3 \bullet xH_2O$

Assay (metals basis) 99.9% min

CAS # 3269-12-3 DOT NR

38852 1 G
38851 10 G

EUROPIUM OXIDE, 99.99% — ITEM 2215

Eu_2O_3 F.W. 351.92

Assay (metals basis) 99.99% min

CAS # 1308-96-9 DOT NR

26142 1 G
26141 5 G
26143 25 G

EUROPIUM OXIDE, 99.9% — ITEM 636

Eu_2O_3 F.W. 351.92

Assay (metals basis) 99.9% min

CAS # 1308-96-9 DOT NR

38803 1 G
38801 10 G
38802 25 G

EUROPIUM PERCHLORATE, HYDRATED, SOLUTION, REAGENT — ITEM 637

$Eu(ClO_4)_3 \bullet 6H_2O$ F.W. 558.41

Europium content 13.1-14.2% Insoluble 0.01%
Chloride 0.01%

CAS # 13537-22-9 DOT NR

38901 20 G
38902 50 G

EUROPIUM PHOSPHATE, 99.9% — ITEM A3090

$EuPO_4 \bullet xH_2O$

Assay (metal basis) 99.9% min.

CAS # 13537-10-5 DOT NR

38911 5 G

EUROPIUM SODIUM SULFATE, 99.9% ITEM A3093

$Eu_2(SO_4)_3 \bullet Na_2SO_4 \bullet xH_2O$

CAS # 13566-37-5 DOT NR

38931 5 G

EUROPIUM SULFATE, 99.9% ITEM A3096

$Eu_2(SO_4)_3 \bullet 8H_2O$ F.W. 736.23

CAS # 10031-55-7 DOT NR

38951 5 G

EUROPIUM TRIFLATE

See Europium Trifluoromethanesulfonate, 98%

EUROPIUM TRIFLUOROMETHANESULFONATE, 98% ITEM 3528

Not on the TSCA inventory

$Eu(CF_3SO_3)_3$ F.W. 599.17

Assay 98%

CAS # 52093-25-1 DOT NR

38991 1 G
38992 5 G
38993 25 G

FAST SULPHON BLACK F ITEM 371

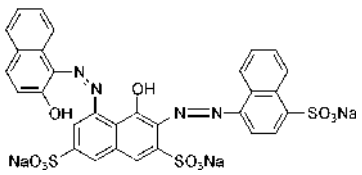
Indicator for the EDTA titration of copper. R. Belcher, R.A. Close and T.S. West, Chem. and Ind., 1957,1647; Spectrophotometric reagent for beryllium A.M. Cabrera and T.S. West, Anal.Chem,35,311(1963)

$C_{30}H_{17}N_4O_{11}S_3Na_3$ F.W. 774.65

Suitability for use in EDTA titrations

CAS # 3682-47-1 DOT NR

39002 25 G



FERRIC ACETYLACETONATE ITEM 3513

$Fe(C_5H_7O_2)_3$ F.W. 353.18

Melting point 175-185 C

CAS # 14024-18-1 DOT NR

39142 50 G

FERRIC AMMONIUM CITRATE, PURIFIED ITEM 1156

Brown

Solubility-pass test

CAS # 1185-57-5 DOT NR NFPA # 1-0-1

39151 500 G
39152 2.5 KG

FERRIC AMMONIUM SULFATE, DODECAHYDRATE, REAGENT (ACS) ITEM 605

$FeNH_4(SO_4)_2 \bullet 12H_2O$ F.W. 482.20

Assay 98.5-102.0%
Chloride 0.001%
Calcium 0.01%
Magnesium 0.005%
Sodium 0.02%
Ferrous iron (Fe++) - Pass test
Insoluble matter 0.01%
Nitrate 0.01%
Copper 0.003%
Potassium 0.005%
Zinc 0.003%
Appearance - Pale violet crystals

CAS # 7783-83-7 DOT NR NFPA # 1-0-0

39205 100 G
39201 500 G
39202 2.5 KG
39203 10 KG
39204 50 KG

FERRIC AMMONIUM SULFATE, SOLUTION ITEM 2065

Saturated Solution

$FeNH_4(SO_4)_2 \bullet 12H_2O$ F.W. 482.20

Suitability as indicator - Pass Test

CAS # 7783-83-7 DOT NR

24641 500 ML

FERRIC CHLORIDE, ANHYDROUS, 97% ITEM 2579

$FeCl_3$ F.W. 162.21

Assay 97% min.

CAS # 7705-08-0 DOT 8/III

39291 500 G
39292 2.5 KG

F

FERRIC CHLORIDE, HEXAHYDRATE, REAGENT (ACS) — ITEM 921

$FeCl_3 \bullet 6H_2O$ F.W. 270.30

Assay 97.0-102.0%
Nitrate 0.01%
Sulfate 0.01%
Copper 0.003%
Calcium 0.01%
Potassium 0.005%
Insoluble 0.01%
Phosphorus compounds (PO4) 0.01%
Zinc 0.003%
Ferrous Iron (Fe++) 0.002%
Magnesium 0.005%
Sodium 0.05%

CAS # 10025-77-1 DOT 8/III NFPA # 1-0-1

39303 100 G
39301 500 G
39302 2.5 KG

FERRIC CHLORIDE SOLUTION, 10% W/V — ITEM 2066

Reagent Grade

$FeCl_3 \bullet 6H_2O$ F.W. 270.30

Concentration 10 ± 1%

CAS # 10025-77-1 DOT 8/III

24651 500 ML
24652 6 X 500 ML

Specific Gravity 1.080

FERRIC CITRATE — ITEM A3876

$C_6H_5O_7Fe$ F.W. 244.95

Assay (as Fe) 16% min.

CAS # 2338-05-8 DOT NR NFPA # 1-0-0

39251 100 G
39252 500 G

FERRIC EDTA

See Ferric Sodium Ethylenediaminetetraacetate

FERRIC FERROUS OXIDE

See Ferrous/Ferric Oxide

FERRIC NITRATE, NONAHYDRATE, 99.999% — ITEM 5030

Iron (III) Nitrate

$Fe(NO_3)_3 \bullet 9H_2O$ F.W. 404.00

Assay (metals basis) 99.999% min.

CAS # 7782-61-8 DOT 5.1/III NFPA # 1-0-3

87261 10 G
87262 50 G

FERRIC NITRATE, REAGENT (ACS) — ITEM 922

$Fe(NO_3)_3 \bullet 9H_2O$ F.W. 404.00

Assay 98.0-101.0%
Chloride 0.0005%
Calcium 0.01%
Potassium 0.005%
Insoluble 0.005%
Sulfate 0.01%
Magnesium 0.005%
Sodium 0.05%

CAS # 7782-61-8 DOT 5.1/III NFPA # 1-0-3

39370 100 G
39371 500 G
39372 2.5 KG
39373 10 KG
39374 50 KG
39375 500 KG
39376 1000 KG

FERRIC NITRATE SOLUTION, 40.4% in 8% Nitric Acid — ITEM 2069

APHA for Thiocyanates

$Fe(NO_3)_3 \bullet 9H_2O$ F.W. 404.00

CAS # 7782-61-8 DOT 5.1/8/II

24682 100 ML
24681 500 ML

Specific Gravity 1.400

FERRIC NITRATE SOLUTION, 20% W/V — ITEM 2068

ASTM Reagent No. 148

$Fe(NO_3)_3 \bullet 9H_2O$ F.W. 404.00

Concentration 20 ± 1% (w/v)

CAS # 7782-61-8 DOT 8/III

24671 500 ML

Specific Gravity 1.200

FERRIC OXIDE, 99.995%+ — ITEM 5031

Iron (III) Oxide

Fe_2O_3 F.W. 159.69

Assay (metals basis) 99.995%+

CAS # 1309-37-1 DOT NR NFPA # 1-0-0

87271 5 G
87272 25 G

FERRIC OXIDE, 99.99% — ITEM A3928

Fe_2O_3 F.W. 159.69

Assay (metals basis) 99.99% min.

CAS # 1309-37-1 DOT NR NFPA # 1-0-0

39381 25 G

FERRIC OXIDE, 99.9% ITEM 1219

Fe_2O_3 F.W. 159.69

Assay (metals basis) 99.9% min.

CAS # 1309-37-1 DOT NR NFPA # 1-0-0

45861	500 G
45862	2.5 KG

FERRIC OXIDE, REAGENT ITEM 1158

Fe_2O_3 F.W. 159.69

Insoluble in HCl 0.2%
Sulfate 0.2%
Phosphate 0.02%

CAS # 1309-37-1 DOT NR NFPA # 1-0-0

39391	500 G
39392	2.5 KG
39393	10 KG
39394	50 KG

FERRIC PERCHLORATE, HYDRATED, YELLOW, REAGENT ITEM 39

$Fe(ClO_4)_3 \bullet 6H_2O$ F.W. 462.32

Assay (anhydrous basis) 65.0-80.0%
Insoluble 0.01%
Chloride 0.10%
Sulfate 0.005%
pH of 5% solution 0-3
Appearance - Yellow crystals

CAS # 55144-08-6 DOT 5.1/II NFPA # 1-0-3

39400	100 G
39401	500 G
39402	2.5 KG
39403	10 KG
39404	50 KG
39405	100 KG
39406	500 KG

FERRIC PERCHLORATE, HYDRATED, NON-YELLOW, REAGENT ITEM 40

$Fe(ClO_4)_3 \bullet 6H_2O$ F.W. 462.32

Assay (anhydrous basis) 71-79%
Insoluble 0.01%
Chloride 0.005%
Sulfate 0.005%
pH of 5% solution 0-3
Appearance - Light purple or violet crystals

CAS # 55144-08-6 DOT 5.1/II NFPA # 1-0-3

39421	100 G
39422	500 G
39423	2.5 KG
39424	10 KG
39425	50 KG
39426	100 KG
39427	500 KG

FERRIC SODIUM ETHYLENEDIAMINETETRAACETATE ITEM 538

$NaFeC_{10}H_{12}N_2O_8 \bullet 3H_2O$ F.W. 421.10

Assay (iodometric) 98% min.

CAS # 15708-41-5 DOT NR NFPA # 1-0-0

51500	100 G
51501	500 G
51502	2.5 KG

FERRIC SULFATE, HYDRATED, REAGENT ITEM 606

Approx. 30 mesh

$Fe_2(SO_4)_3 \bullet xH_2O$ F.W. 399.89

Assay 73.0%min.
Insoluble 0.02%
Chloride 0.01%
Nitrate 0.01%
Copper 0.005%
Zinc 0.005%
Ferrous iron (Fe++) 0.02%
Substances not pptd by ammonium hydroxide 0.10%

CAS # 10028-22-5 DOT NR NFPA # 1-0-0

39505	100 G
39501	500 G
39502	2.5 KG
39503	10 KG
39504	50 KG

FERROIN

See 1,10-Phenanthroline Ferrous Sulfate Solution

FERROUS ACETATE, ANHYDROUS ITEM 1211

$Fe(C_2H_3O_2)_2$ F.W. 173.94

Assay 95.0% min.

CAS # 3094-87-9 DOT NR NFPA # 1-0-0

39652	10 G
39651	50 G

FERROUS AMMONIUM SULFATE, REAGENT (ACS) ITEM 550

$Fe(NH_4)_2(SO_4)_2 \bullet 6H_2O$ F.W. 392.14

Assay 98.5-101.5%
Insoluble 0.01%
Phosphate 0.003%
Copper 0.003%
Ferric Iron 0.01%
Manganese 0.01%
Zinc 0.003%
Calcium 0.005%
Magnesium 0.002%
Potassium 0.002%
Sodium 0.02%

CAS # 7783-85-9 DOT NR NFPA # 1-0-0

39706	100 G
39701	500 G
39702	2.5 KG
39703	10 KG
39704	50 KG

FERROUS AMMONIUM SULFATE, 0.1 N SOLUTION — ITEM 9786

Solution in water

$Fe(NH_4)_2(SO_4)_2 \bullet 6H_2O$ F.W. 392.14

Normality 0.10 ± 0.01 N
Insoluble Matter 0.005%

CAS # 7783-85-9 DOT NR

Please Inquire For Sizes

FERROUS CHLORIDE, TETRAHYDRATE, REAGENT — ITEM 923

$FeCl_2 \bullet 4H_2O$ F.W. 198.81

Assay (as FeCl2) 62.5 - 66.0%
Phosphate 0.001%
Arsenic 0.0001%
Insoluble 0.01%
Sulfate 0.01%
Substances not ppt'd by NH4OH 0.10%

CAS # 13478-10-9 DOT 8/II NFPA # 1-0-1

39751	100 G
39752	500 G
39753	2.5 KG

FERROUS ETHYLENEDIAMMONIUM SULFATE, PRIMARY STANDARD — ITEM 41

(Oesper's Reagent) Standard of reference in oxidimetry

$Fe[H_3NCH_2CH_2NH_3](SO_4)_2 \bullet 4H_2O$ F.W. 382.16

Assay 99.8-100.1%
Chloride 0.001%
Insoluble 0.005%
Ferric Iron 0.1%

CAS # 34962-29-3 DOT NR NFPA # 1-0-0

39801	100 G
39802	500 G
39803	2.5 KG

FERROUS ETHYLENEDIAMMONIUM SULFATE, REAGENT GRADE — ITEM 5514

(Oesper's Reagent)

$Fe[H_3NCH_2CH_2NH_3](SO_4)_2 \bullet 4H_2O$ F.W. 382.16

Assay 99 - 101%
Chloride 0.001%
Insoluble 0.005%
Ferric ion 0.5%

CAS # 34962-29-3 DOT NR NFPA # 1-0-0

Please Inquire For Sizes

FERROUS/FERRIC OXIDE — ITEM 3655

<5 micron

Fe_3O_4 F.W. 231.54

Assay 98%

CAS # 1317-61-9 DOT NR

39361	500 G
39362	2.5 KG

FERROUS HEXAFLUOROSILICATE — ITEM A3906

$FeSiF_6 \bullet 6H_2O$ F.W. 306.02

Assay 95% min.

CAS # 12062-25-8 DOT 6.1/III

39851	25 G

FERROUS PERCHLORATE, HYDRATED, REAGENT — ITEM 42

$Fe(ClO_4)_2 \bullet 6H_2O$ F.W. 362.86

Ferrous iron 14.5-16.0%
Chloride 0.01%
pH of 5% solution 0-3
Insoluble 0.01%
Sulfate 0.005%

CAS # 13520-69-9 DOT 5.1/II NFPA # 1-0-3

39900	100 G
39901	500 G
39902	2.5 KG
39904	50 KG
39905	100 KG

FERROUS STANNATE — ITEM A3957

$FeSnO_3 \bullet 3H_2O$ F.W. 276.60

CAS # 11073-68-0 DOT NR

39971	100 G

FERROUS SULFATE, HEPTAHYDRATE, 99.999% — ITEM A3966

$FeSO_4 \bullet 7H_2O$ F.W. 278.01

Assay (metals basis) 99.999% min

CAS # 7782-63-0 DOT NR NFPA # 1-0-0

40012	5 G
40011	25 G

FERROUS SULFATE, HEPTAHYDRATE, REAGENT (ACS) — ITEM 551

$FeSO_4 \bullet 7H_2O$ F.W. 278.01

Assay 99.0% min.
Chloride 0.001%
Copper 0.005%
Manganese 0.05%
Calcium 0.005%
Potassium 0.002%
Insoluble 0.01%
Phosphate 0.001%
Ferric ion 0.1%
Zinc 0.005%
Magnesium 0.002%
Sodium 0.02%

CAS # 7782-63-0 DOT NR NFPA # 1-0-0

40006	100 G
40001	500 G
40002	2.5 KG
40003	10 KG
40004	50 KG
40005	136 KG

FERROUS SULFIDE — ITEM 1400

FeS F.W. 87.91

Identity Pass Test

CAS # 1317-37-9 DOT NR

40101 500 G

FERROUS TRIS(1,10-PHENANTHROLINE) PERCHLORATE

See tris-(1,10-Phenanthroline) Ferrous Perchlorate

FERROUS TRIS(1,10-PHENANTHROLINE) SULFATE

See 1,10-Phenanthroline Ferrous Sulfate Solution

FERROZINE

See 3-(2-Pyridyl)-5,6-Diphenyl-1,2,4-Triazine Disulfonated, Monosodium Salt

FILTER AID, CELATOM® FW-14 — ITEM 2611

Flow rate 800, clarity 965.

CAS # 68855-54-9 DOT NR

33021 500 G
33022 2.5 KG

FILTER AID, CELATOM® FW-50 — ITEM 2612

Flow rate 2500, clarity 940

CAS # 68855-54-9 DOT NR

33031 500 G
33032 2.5 KG

FILTER AID, CELATOM® FW-60 — ITEM 2613

Flow rate 3000, clarity 936

CAS # 68855-54-9 DOT NR

33041 500 G
33042 2.5 KG

FILTER AID, CELATOM® FW-80 — ITEM 2614

Flow rate 5500, clarity 927

CAS # 68855-54-9 DOT NR

33051 500 G
33052 2.5 KG

FILTER AID, CELITE® 521 — ITEM 2616

Acid washed

CAS # 91053-39-3 DOT NR

33071 500 G
33072 2.5 KG

FILTER AID, CELITE® 545 — ITEM 2617

Particle size larger than 150 mesh 2.0-25.0% Centrifuged wet density 255-369 g/L
Permeability 2.60-6.50 darcy

CAS # 68855-54-9 DOT NR

33081 500 G
33082 2.5 KG

FILTER AID, DICALITE 4200 — ITEM 718

CAS # 68855-54-9 DOT NR

33001 500 G

FLORISIL®, -200 MESH, TLC GRADE — ITEM 2693

Suitable for use in thin layer chromatography. -200 mesh, typically 50% as -325 mesh. Activated Magnesium Silicate

CAS # 1343-88-0 DOT NR

40081 100 G
40082 500 G
40083 2.5 KG

FLORISIL®, 60-100 MESH, REAGENT — ITEM 1258

Suitable for use in Chromatography of pesticide residues. Magnesium Silicate Activated at 675 C.

Particle size on 60 mesh screen 10% max Particle size through 100 mesh 10% max.

CAS # 1343-88-0 DOT NR NFPA # 1-0-0

40253 100 G
40251 500 G
40252 2.5 KG
40254 10 KG

FLORISIL®, 16-30 MESH, STANDARD — ITEM 2699

Suitable as adsorbent in gas chromatography. Magnesium Silicate Activated at 650 C.

Suitable for use in gas chromatography Activated at 650 C

CAS # 1343-88-0 DOT NR

40151 100 G
40152 500 G
40153 2.5 KG

F

FLORISIL®, 30-60 MESH, STANDARD ITEM 2700

Suitable as adsorbent in gas chromatography. Magnesium Silicate Activated at 650 C.

CAS # 1343-88-0 DOT NR

40161	100 G
40162	500 G
40163	2.5 KG

FLORISIL®, 60-100 MESH, STANDARD ITEM 2701

Suitable as adsorbent in gas chromatography. Magnesium Silicate Activated at 650 C.

Mesh size 60-100 mesh 80% min.

CAS # 1343-88-0 DOT NR

40171	100 G
40172	500 G
40173	2.5 KG

FLORISIL®, 60-200 MESH, STANDARD ITEM 2702

Suitable as adsorbent in gas chromatography. Magnesium Silicate Activated at 650 C.

CAS # 1343-88-0 DOT NR

40181	100 G
40182	500 G
40183	2.5 KG

FLORISIL®, 100-200 MESH, STANDARD ITEM 2703

Suitable as adsorbent in gas chromatography. Magnesium Silicate Activated at 650 C.

CAS # 1343-88-0 DOT NR

40211	100 G
40212	500 G
40213	2.5 KG

FLORISIL®, -200 MESH, STANDARD ITEM 2704

Suitable as adsorbent in gas chromatography. Magnesium Silicate Activated at 650 C.

Mesh -200 80% min.

CAS # 1343-88-0 DOT NR

40221	100 G
40222	500 G
40223	2.5 KG

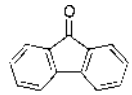
9-FLUORENONE, 98% ITEM 2560

$C_{13}H_8O$ F.W. 180.21

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Yellow crystal/solid

CAS # 486-25-9 DOT NR

40191	100 G
40192	500 G



FLUORESCEIN, DISODIUM SALT ITEM 712

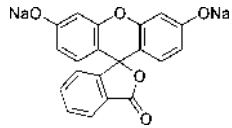
Uranine. Fluorescent indicator. May be used in examination of subterranean waters.

$C_{20}H_{10}O_5Na_2$ F.W. 376.27

Suitability as a fluorescence indicator(Pass Test)

CAS # 518-47-8 DOT NR NFPA # 0-1-1

40201	100 G
40202	500 G
40203	2.5 KG



FLUORESCEIN, FREE ACID ITEM 4583

$C_{20}H_{12}O_5$ F.W. 332.31

Suitability as indicator Pass Test

CAS # 2321-07-5

20831	100 G
20832	500 G

FLUORIDE, 1,000 ppm, ION CHROMATOGRAPHY STANDARD SOLUTION ITEM 3761

Concentration (as F) 1,000 ± 10 ug/mL Matrix: NaF, water

DOT NR

23881	100 ML
23882	500 ML

Specific Gravity 1.000

FLUORIDE, 1000 ppm STANDARD SOLUTION — ITEM 2070

IC, colorimetric or volumetric standard

Concentration 1,000 ± 10 ug/ml — Matrix: Sodium fluoride, water
NIST Traceable

DOT NR

24690 100 ML
24692 500 ML

Specific Gravity 1.000

FLUORIDE, 100 ppm STANDARD SOLUTION — ITEM 9822

Concentration 100 ± 5 ppm

DOT NR

19491 1 L

FLUORIDE, 10 ppm STANDARD SOLUTION, PREMIXED WITH TISAB (Color-coded Orange) — ITEM 9320

Fluoride concentration 10.00 ± 0.05 ppm

DOT NR

19511 1 L

FLUORIDE, 1 ppm STANDARD SOLUTION, PREMIXED WITH TISAB — ITEM 9319

Fluoride Concentration 1 ppm

DOT NR

19531 1 L

FLUOROBORIC ACID, 48% AQUEOUS — ITEM 2452

Tetrafluoroboric Acid

HBF_4 F.W. 87.81

Assay 48-51%

CAS # 16872-11-0 DOT 8/II NFPA # 3-0-0

40281 500 ML
40283 2 L

Specific Gravity 1.370

4-FLUOROPHENYLACETYLENE, 98% — ITEM 5258

Not on the TSCA inventory.

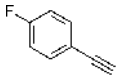
$FC_6H_4C{\equiv}CH$ F.W. 120.12

Assay (GC-FID), 97.5% min — Identification by GC/MS - Conforms
Appearance - Clear liquid — Color - 150 APHA max.

CAS # 766-98-3 DOT 4.1/II

15031 1 G
15032 5 G
15033 25 G
15034 100 G
15035 250 G
15036 1 KG

Specific Gravity 1.048



4-(4-FLUOROPHENYL)-1-BUTENE, 97% — ITEM 3153

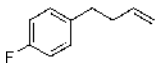
Not on the TSCA inventory.

$FC_6H_4(CH_2)_2CH{=}CH_2$ F.W. 150.20

Assay (GC-FID), 96.5% min — Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 2248-13-7 DOT 9/III

81491 5 G
81492 25 G



FLUOROPHOSPHORIC ACID

See Hexafluorophosphoric Acid

FLUOROSILICIC ACID, 20-25%, SOLUTION — ITEM 5215

H_2SiF_6 F.W. 144.09

Assay 20-25%

CAS # 16961-83-4 DOT 8/II NFPA # 3-0-0

11311 100 ML
11312 500 ML

Specific Gravity 1.220

F

FORMALDEHYDE SOLUTION, 37%, REAGENT (ACS) — ITEM 924

Contains 10-15% methanol as preservative

HCHO F.W. 30.03

Assay 36.5-38.0%
Residue after ignition 0.005%
Chloride 0.0005%
Heavy metals (as Pb) 0.0005%
Preservative 10-15% Methanol - Pass Test

Color (APHA) 10 max.
Titrable acid 0.006 meq/g
Sulfate 0.002%
Iron 0.0005%

CAS # 50-00-0 DOT 3/8/III NFPA # 3-2-2

40301	500 ML
40302	4 L
40303	4 X 4 L

Specific Gravity 1.080

FORMALIN, 10% NEUTRAL, BUFFERED — ITEM 5533

Formaldehyde 3.8 - 4.2% pH 7.0 ± 0.2

DOT NR

17351	500 ML
17352	4 L
17353	20 L

F

FORMAMIDE, REAGENT (ACS) — ITEM 1093

$HCONH_2$ F.W. 45.04

Assay 99.5% min. (GLC)
Freezing point 2.0-3.0 C

Color (APHA) 10 max

CAS # 75-12-7 DOT NR NFPA # 3-1-2

40350	100 G
40351	500 G
40356	2.5 KG
40358	22 KG

Specific Gravity 1.130

FORMATE, 1,000 ppm, ION CHROMATOGRAPHY STANDARD SOLUTION — ITEM 3762

Refrigerate to maximize shelf life

Concentration (as formate) 1,000 ± 10 ug/mL Matrix: sodium formate, water

DOT NR

23891	100 ML
23892	500 ML

Specific Gravity 1.000

FORMIC ACID, 88%, VERITAS® DOUBLE DISTILLED — ITEM 1262

Ultra trace metal grade. Low PPT level impurities.

HCOOH F.W. 46.03

Assay 88% min
Dilution test-pass test
Acetic acid 0.4% max
Chloride 0.001%
Sulfite-pass test
Iron 0.000001%

Color (APHA) 15 max
Residue after evaporation 0.0001%
Ammonium 0.001%
Sulfate 0.001%
Heavy Metals 0.00001%
Boron 0.000001%

CAS # 64-18-6 DOT 8/3/II NFPA # 2-2-1

T **40420**	250 ML
T **40421**	500 ML
T **40422**	2 L

T = FEP Bottle

Specific Gravity 1.220

FORMIC ACID, 88%, ENVIRONMENTAL GRADE — ITEM 2591

Similar to redistilled grade with guaranteed trace metal specifications. Packed in fluorinated bottles to minimize boron and silicon contamination.

HCOOH F.W. 46.03

Assay 88% min.
Dilution test - pass test
Acetic acid 0.4%
Chloride 0.001%
Sulfite - pass test

Color (APHA) 15
Residue after evaporation 0.0001%
Ammonium 0.001%
Sulfate 0.001%
Heavy Metals 0.00001%

Ag 10 ppb	Al 10 ppb	As 10 ppb
B 10 ppb	Ba 10 ppb	Be 10 ppb
Ca 10 ppb	Cd 10 ppb	Co 10 ppb
Cr 10 ppb	Cu 10 ppb	Fe 10 ppb
K 10 ppb	Li 10 ppb	Mg 10 ppb
Mn 10 ppb	Mo 10 ppb	Na 10 ppb
Ni 10 ppb	Pb 10 ppb	Sb 10 ppb
Se 10 ppb	Sr 10 ppb	Ti 10 ppb
Tl 10 ppb	V 10 ppb	Zn 10 ppb

CAS # 64-18-6 DOT 8/3/II NFPA # 2-2-1

40431	500 ML
40432	6 X 500 ML
40433	2 L
40434	4 X 2 L
40435	6 X 2 L

Specific Gravity 1.220

FORMIC ACID, 88%, SUPERIOR REAGENT (ACS) ITEM 2585

Metals analysis reported on certificate in ppm.

HCOOH F.W. 46.03

Assay 88.0% min.
Dilution test - Pass test
Acetic acid 0.4%
Chloride 0.001%
Sulfite - Pass test
Iron 0.0001%
Color (APHA) 15
Residue after evaporation 0.002%
Ammonium 0.005%
Sulfate 0.002%
Heavy metals (as Pb) 0.0005%

Ag 0.1 ppm	Al 0.1 ppm	Au 0.3 ppm
Ba 0.1 ppm	Ca 5.0 ppm	Cd 0.1 ppm
Co 0.1 ppm	Cr 0.1 ppm	Cu 0.3 ppm
Fe 1 ppm	Hg 0.1 ppm	K 0.3 ppm
Li 0.1 ppm	Mg 2.0 ppm	Mn 0.1 ppm
Mo 0.1 ppm	Na 1 ppm	Ni 0.5 ppm
Pb 0.2 ppm	Sr 0.1 ppm	Zn 0.1 ppm

CAS # 64-18-6 DOT 8/3/II NFPA # 2-2-1

40411	500 ML
40412	6 X 500 ML
40413	2.5 L
40414	4 X 2.5 L
40415	6 X 2.5 L
40416	2.5 L PVC
40417	6X2.5L PVC

Specific Gravity 1.220

FORMIC ACID, 88%, REAGENT (ACS) ITEM 650

HCOOH F.W. 46.03

Assay 88.0% min
Dilution test-pass test
Acetic acid 0.4% max.
Chloride 0.001%
Sulfite-pass test
Iron 0.0005%
Color (APHA) 15 max
Residue after evaporation 0.002%
Ammonium 0.005%
Sulfate 0.002%
Heavy Metals (as Pb) 0.0005%

CAS # 64-18-6 DOT 8/3/II NFPA # 2-2-1

40401	500 ML
40403	6 X 500 ML
40402	2.5 L
40405	6 X 2.5 L
40406	2.5 L PVC
40407	6X2.5L PVC

Specific Gravity 1.220

FORMIC ACID, METHYL ESTER

See Methyl Formate, 97%

FUMARIC ACID, 99% ITEM 5415

HOOCCH=CHCOOH F.W. 116.07

Assay (Titration), 98.5% - 101.5%

CAS # 110-17-8 DOT NR NFPA # 2-1-0

16071	100 G
16072	500 G
16073	2.5 KG

FUME ERADICATOR ITEM 184

See Laboratory Apparatus section in front of catalog for more information.

DOT NR

78301	EACH

FUME ERADICATOR WITH DROPPING FUNNEL ITEM 185

See Laboratory Apparatus section in front of catalog for more information.

DOT NR

78311	EACH

FUME ERADICATOR KIT WITHOUT REFLUX HEAD ITEM 1266

Kit includes fume eradicator, suction flask, rubber stopper and 500 ml Erlenmeyer flask.

DOT NR

78141	KIT

FUME ERADICATOR KIT WITH REFLUX HEAD ITEM 1265

Kit includes fume eradicator, reflux head, suction flask, stopper and 500 ml flask.

DOT NR

78101	KIT

FUME ERADICATOR WITH DROPPING FUNNEL, KIT ITEM 1267

Kit includes fume eradicator with insealed dropping funnel, suction flask, rubber stopper and 500 ml Erlenmeyer flask.

DOT NR

78181	KIT

FUMING NITRIC ACID

See Nitric Acid, 90% Fuming

2-FURALDEHYDE

See 2-Furancarboxyaldehyde

2-FURANCARBOXYALDEHYDE, REAGENT — ITEM 2396

Furfural; 2-Furaldehyde

$C_5H_4O_2$ F.W. 96.08

Assay (GC-FID), 98.0% min
Residue after evaporation 0.5%
Titrable acid 0.02 meq/g

CAS # 98-01-1 DOT 6.1/3/II NFPA # 3-2-0

88171 500 ML
88172 2.5 L

Specific Gravity 1.160

2,5-FURANDIONE

See Maleic Anhydride, 98%

FURFURAL

See 2-Furancarboxyaldehyde

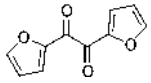
FURIL — ITEM 367

$C_4H_3OC(=O)C(=O)C_4H_3O$ F.W. 190.15

Melting point 165-168 C

CAS # 492-94-4 DOT NR

40601 10 G
40602 25 G



FURILDIOXIME, HYDRATED, 98% — ITEM 276

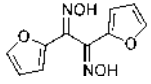
Alpha Furildioxime. Reagent for nickel, palladium and rhenium.

$C_4H_3OC(=NOH)C(=NOH)C_4H_3O•H_2O$ F.W. 238.18

Assay (HPLC -Sum of isomers), 97.5% min
Solubility in ethyl alcohol
Suitability for detection of nickel
H2O (KF), 7.0-8.0%

CAS # 6035-71-8 DOT NR

40801 5 G
40802 10 G
40803 50 G



GADOLINIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1737

Concentration 10,000 ± 100 ug/ml
NIST Traceable
Matrix: 5% Nitric acid

DOT 8/III NFPA # 1-0-1

22370 100 ML
22372 500 ML

Specific Gravity 1.030

GADOLINIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1736

Concentration 1,000 ± 10 ug/ml
NIST Traceable
Matrix: 5% Nitric acid

DOT 8/III NFPA # 2-0-1

22360 100 ML
22362 500 ML

Specific Gravity 1.030

GADOLINIUM ACETATE, 99.9% — ITEM A3159

$Gd(C_2H_3O_2)_3•XH_2O$ F.W. 334.39 + XH2O

Assay (metals basis) 99.9%
Gadolinium (by EDTA titration) 37.0 - 40.5%

CAS # 16056-77-2 DOT NR

40841 25 G
40842 100 G

GADOLINIUM ACETYLACETONATE — ITEM 3974

Not on the TSCA inventory. For R&D use only.

$Gd(C_5H_7O_2)_3•XH_2O$ F.W. 454.58 (ANHYD.)

Gadolinium content (typical) 31-35%

CAS # 22498-65-3 DOT NR

11321 5 G
11322 25 G

GADOLINIUM AMMONIUM SULFATE, 99.9% — ITEM A3162

$GdNH_4(SO_4)_2•2H_2O$ F.W. 403.45

CAS # 21995-31-3 DOT NR

40851 10 G

GADOLINIUM BROMIDE, 99.9% — ITEM 1402

$GdBr_3•xH_2O$ F.W. 396.96 + XH2O

Assay (metals basis) 99.9%

CAS # 13818-75-2 DOT NR

40701 5 G

GADOLINIUM CARBONATE, 99.999% ITEM A3180

$Gd_2(CO_3)_3 \bullet xH_2O$ F.W. 494.53 (ANHYD)

Assay (metals basis) 99.999% min. Gadolinium content 46.0% min.

CAS # 5895-49-8 DOT NR

40891 5 G
40892 25 G

GADOLINIUM CARBONATE, 99.9% ITEM A3177

$Gd_2(CO_3)_3 \bullet xH_2O$ F.W. 494.53 (ANHYD)

Assay (metals basis) 99.9% min. Gadolinium content 45.0% min.

CAS # 5895-49-8 DOT NR

40881 10 G

GADOLINIUM CARBONATE, 99% ITEM A3174

$Gd_2(CO_3)_3 \bullet xH_2O$ F.W. 494.53 (ANHYD)

Assay (metals basis) 99% min Gadolinium content 45.0% min.

CAS # 5895-49-8 DOT NR

40871 25 G

GADOLINIUM CHLORIDE, 99.9%, ANHYDROUS ITEM 3975

$GdCl_3$ F.W. 263.61

Assay (metals basis) 99.9% Assay (by EDTA titration) 95%

CAS # 10138-52-0 DOT NR

11331 5 G
11332 25 G

GADOLINIUM CHLORIDE, HEXAHYDRATE, 99.99% ITEM A3189

$GdCl_3 \bullet 6H_2O$ F.W. 371.70

Assay (metals basis) 99.99% min

CAS # 13450-84-5 DOT NR NFPA # 1-0-0

40923 5 G
40921 25 G
40922 100 G

GADOLINIUM CHLORIDE, HEXAHYDRATE, 99.9% ITEM A3186

$GdCl_3 \bullet 6H_2O$ F.W. 371.70

Assay (metals basis) 99.9% min Gadolinium content 40.2 - 44.4%

CAS # 13450-84-5 DOT NR NFPA # 1-0-0

40911 25 G
40912 100 G
40913 500 G
40914 2.5 KG
40915 10 KG

GADOLINIUM FLUORIDE, 99.9% ITEM A3201

GdF_3 F.W. 214.24

CAS # 13765-26-9 DOT NR

40951 25 G

GADOLINIUM FLUORIDE, 99% ITEM A3198

GdF_3 F.W. 214.24

CAS # 13765-26-9 DOT NR

40941 25 G

GADOLINIUM NITRATE, HEXAHYDRATE, 99.99% ITEM 2216

$Gd(NO_3)_3 \bullet 6H_2O$ F.W. 451.37

Assay (Metals basis) 99.99% Gadolinium content 33.4-36.0%

CAS # 19598-90-4 DOT 5.1/III

26152 5 G
26151 25 G

GADOLINIUM NITRATE, HEXAHYDRATE, 99.9% ITEM A3213

$Gd(NO_3)_3 \bullet 6H_2O$ F.W. 451.37

Gadolinium content (by EDTA titration) 34.0-35.5% Assay (metals basis) 99.9%

CAS # 19598-90-4 DOT 5.1/III

40982 25 G
40981 100 G

GADOLINIUM OXALATE, 99.9% ITEM A3219

$Gd_2(C_2O_4)_3 \bullet 10H_2O$ F.W. 758.73

Assay (metals basis) 99.9%

CAS # 867-64-1 DOT NR

40991 25 G

GADOLINIUM OXIDE, 99.999% ITEM A3228

Gd_2O_3 F.W. 362.50

Assay (metals basis) 99.999% min

CAS # 12064-62-9 DOT NR

41021 5 G
41022 25 G
41023 100 G

G

GADOLINIUM OXIDE, 99.99% — ITEM 1221

Gd_2O_3 F.W. 362.50

Assay (metals basis) 99.99% Loss on ignition @ 600 C 0.5%

CAS # 12064-62-9 DOT NR NFPA # 1-0-0

40902 25 G

GADOLINIUM OXIDE, 99.9% — ITEM 575

Gd_2O_3 F.W. 362.50

Assay (metals basis) 99.9% min.

CAS # 12064-62-9 DOT NR NFPA # 1-0-0

41001 25 G
41002 100 G

GADOLINIUM PERCHLORATE, CRYSTALLINE HYDRATE — ITEM 3977

Not on the TSCA inventory. Approximates octahydrate formulation at the time of packaging; ca 23% water. Packaged in vials under nitrogen. Reduced-moisture salt for catalyst applications.

$Gd(ClO_4)_3 \bullet XH_2O$ F.W. 455.54 + H2O

Gadolinium content (by EDTA) 25.5% min. Insoluble matter 0.01%
Sulfate 0.005% Iron 0.002%
Chloride 0.01% pH of 5% solution 1-3

CAS # 14017-52-8 DOT 5.1/II

11351 5 G
11352 25 G
11353 100 G

GADOLINIUM PERCHLORATE, HYDRATED, SOLUTION, REAGENT — ITEM 525

$Gd(ClO_4)_3 \bullet 6H_2O$ F.W. 563.71

Gadolinium concentration 13.4-14.5% Insoluble 0.01%
Chloride 0.01%

CAS # 14017-52-8 DOT NR

41101 20 G
41102 50 G

Specific Gravity 1.550

GADOLINIUM SULFATE, 99.99% — ITEM A3243

$Gd_2(SO_4)_3 \bullet 8H_2O$ F.W. 746.83

Assay (metals basis) 99.99% min.

CAS # 13628-54-1 DOT NR

41121 25 G

GADOLINIUM SULFATE, 99.9% — ITEM A3240

$Gd_2(SO_4)_3 \bullet 8H_2O$ F.W. 746.83

Assay (metals basis) 99.9% min.

CAS # 13628-54-1 DOT NR NFPA # 1-0-0

41111 25 G

GADOLINIUM TRIFLATE

See Gadolinium Trifluoromethanesulfonate, 98%

GADOLINIUM TRIFLUOROMETHANESULFONATE, 98% — ITEM 3529

Not on the TSCA inventory

$Gd(CF_3SO_3)_3$ F.W. 604.46

Assay 98%

CAS # 52093-29-5 DOT NR

41091 5 G
41092 25 G

GALLIC ACID, MONOHYDRATE, LOW METALS GRADE — ITEM 1587

3,4,5-trihydroxybenzoic acid

$C_6H_2(OH)_3COOH \bullet H_2O$ F.W. 188.14

Assay 98.0% Insoluble 0.01%
Residue after ignition 0.05% Sulfate 0.02%

Al 300 ppb Ca 300 ppb Cr 300 ppb
Cu 100 ppb Fe 100 ppb Pb 100 ppb
Na 100 ppb K 100 ppb Ni 100 ppb
Zn 100 ppb

CAS # 5995-86-8 DOT NR NFPA # 1-1-0

41081 100 G
41082 500 G
41083 2.5 KG

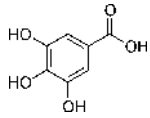
GALLIC ACID, MONOHYDRATE, REAGENT (ACS) — ITEM 925

$C_6H_2(OH)_3COOH \bullet H_2O$ F.W. 188.14

Assay 98.0% min. Insoluble 0.01%
Residue after ignition 0.05% Sulfate 0.02%
Appearance - white to straw colored

CAS # 5995-86-8 DOT NR NFPA # 1-1-0

41151 100 G
41152 500 G
41153 2.5 KG
41154 10 KG
41155 50 KG



GALLIUM, 99.9999% — ITEM A3252

Ga F.W. 69.72

CAS # 7440-55-3 DOT 8/III

41131 10 G
41132 50 G

GALLIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1739

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid w/tr HCl
NIST Traceable

DOT 8/III NFPA # 2-0-1

22390 100 ML
22392 500 ML

Specific Gravity 1.030

GALLIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1738

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22380 100 ML
22382 500 ML

Specific Gravity 1.030

GALLIUM OXIDE, 99.999% — ITEM A3279

Ga_2O_3 F.W. 187.45

Assay (metals basis) 99.999% min.

CAS # 12024-21-4 DOT NR

41211 5 G
41212 25 G

GALLIUM PERCHLORATE, HYDRATED, REAGENT — ITEM 351

$Ga(ClO_4)_3 \bullet 6H_2O$ F.W. 476.19

Assay (as Ga) 13.5 - 15.5% Insoluble 0.01%
Chloride 0.01% Sulfate 0.005%
Iron 0.01% pH of 5% solution 0-3

CAS # 17835-81-3 DOT NR

41201 20 G
41202 50 G

GALLIUM TRIBROMIDE, 99.999% — ITEM A3306

$GaBr_3$ F.W. 309.44

CAS # 13450-88-9 DOT NR

41241 5 G

GERMANIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1741

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid w/trace HF
NIST Traceable

DOT 8/II NFPA # 1-0-1

22410 100 ML

Specific Gravity 1.030

GERMANIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1740

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid w/trace HF
NIST Traceable

DOT 8/II NFPA # 1-0-1

22400 100 ML
22402 500 ML

Specific Gravity 1.030

GERMANIUM IODIDE, 99.9% — ITEM A3351

GeI_4 F.W. 580.21

CAS # 13450-95-8 DOT 8/III

41291 10 G

GERMANIUM OXIDE, 99.9% — ITEM 1550

GeO_2 F.W. 104.59

Assay (metals basis) 99.9%

CAS # 1310-53-8 DOT NR

41282 5 G
41281 25 G
41283 100 G

GFS ETCHANT FORMULA 10 — ITEM 5910

Contains Cerium IV and Perchloric Acid. A superior etchant solution for preparing printed circuits. Particularly useful with chrome or nichrome photoresists.

Cerium IV concentration 0.22 ± 0.01N

DOT 8/II

37901 4 L
37902 4 X 4 L

Specific Gravity 1.107

GFS ETCHANT FORMULA 11 — ITEM 5911

Contains Cerium IV and Perchloric Acid. Higher concentration for faster etch and greater capacity.

Cerium IV concentration 0.30 ± 0.01N

DOT 8/II NFPA # 1-0-1

38001 4 L
38002 4 X 4 L

Specific Gravity 1.131

G

GFS ETCHANT FORMULA 12 — ITEM 5912

Contains Cerium IV and Dilute Nitric Acid.

Cerium IV concentration 0.25 ± 0.01N

DOT 8/II

38101	4 L
38102	4 X 4 L

Specific Gravity 1.150

GFS ETCHANT FORMULA 13 — ITEM 5913

Contains Cerium IV and Dilute Nitric Acid. Extra strength and can be diluted to desired strength by adding water.

Cerium IV concentration 0.50 ± 0.02N

DOT 8/II

38201	4 L
38202	4 X 4 L

Specific Gravity 1.210

GLACIAL ACETIC ACID

See Acetic Acid

D-GLUCOSE, ANHYDROUS, REAGENT (ACS) — ITEM 926

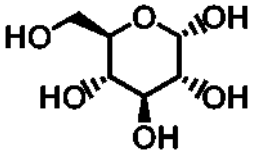
Dextrose.

$CH_2OH(CHOH)_4CHO$ F.W. 180.16

Specific rotation (a)25 D + 52.5 to + 53.0
Loss on drying at 105C 0.2%
Titrable acid 0.002 meq/g
Sulfate and Sulfite (SO4) 0.005%
Iron 0.0005%
Insoluble 0.005%
Residue after ignition 0.02%
Chloride 0.01%
Starch-pass test
Heavy Metals (Pb) 0.0005%

CAS # 50-99-7 DOT NR NFPA # 0-1-1

41351	500 G
41352	2.5 KG
41353	10 KG
41354	50 KG



L-GLUTAMIC ACID, 99% — ITEM 5454

$HOOCCH_2CH_2CH(NH_2)COOH$ F.W. 147.13

Assay 99% min.

CAS # 56-86-0 DOT NR

20391	100 G
20392	500 G
20393	2.5 KG

GLYCERIN, REAGENT (ACS) — ITEM 721

Glycerol

$CH_2OHCHOHCH_2OH$ F.W. 92.09

Assay (by volume) 99.5% min.
Residue after ignition 0.005%
Chlorinated compounds (as Cl) 0.003%
Acrolein and glucose-pass test
Substances darkened by sulfuric acid-pass test
Water 0.5%
Color (APHA) 10 max.
Neutrality-pass test
Sulfate 0.001%
Fatty acid esters (as butyric acid) 0.05%
Heavy Metals (Pb) 0.0002%

CAS # 56-81-5 DOT NR NFPA # 1-1-0

41401	500 ML
41402	4 L
41405	20 L
41406	205 L

Specific Gravity 1.264

GLYCEROL

See Glycerin

GLYCIDYL ETHER OF 1,4-BUTANEDIOL

See 1,4-Butanediol Diglycidyl Ether

GLYCINE, REAGENT (ACS) — ITEM 2397

Aminoacetic Acid

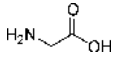
H_2NCH_2COOH F.W. 75.07

Assay 98.5% min
Heavy Metals (as Pb) 0.002%
Sulfate (SO4) 0.005%
Substances darkened by sulfuric acid - passes test
Residue after ignition 0.1%
Chloride (Cl) 0.005%
Ammonium (NH4) 0.005%
Hydrolyzable substances - passes test

CAS # 56-40-6 DOT NR

88181	50 G
88182	250 G

Specific Gravity 1.160



GLYCOL CARBONATE

See Ethylene Carbonate, Reagent

GLYME

See 1,2-Dimethoxyethane

GOLD, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1743

Concentration 10,000 ± 100 ug/ml Matrix: 20% Hydrochloric acid
NIST Traceable

DOT 8/II NFPA # 3-0-2

22430 100 ML
22432 500 ML

Specific Gravity 1.040

GOLD, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1742

Concentration 1,000 ± 10 ug/ml Matrix: 20% Hydrochloric acid
NIST Traceable

DOT 8/II NFPA # 3-0-2

22420 100 ML
22422 500 ML

Specific Gravity 1.040

GOLD CHLORIDE

See Hydrogen Tetrachloroaurate, Trihydrate

GOLD POTASSIUM CYANIDE, 99.99% — ITEM 5032

$KAu(CN)_2$ F.W. 288.10

Assay (metals basis) 99.99% min. Gold content - typically 68%

CAS # 13967-50-5 DOT 6.1/I NFPA # 3-0-1

87281 250 MG
87282 1 G

GUANIDINE HYDROCHLORIDE, BIO-REFINED™ — ITEM 1914

$NH_2C(NH)NH_2 \bullet HCl$ F.W. 95.53

Assay 99.5% min. Residue on ignition 0.05%
Substances reducing permanganate 0.005% pH (6 M in water at 25 C) 4.0 - 6.0
Loss on drying (high vacuum @ 25 C) 0.05% Insoluble matter 0.005%
Sulfate (SO4) 0.005% Absorbance @ 260 nm (6 M in H2O) <0.03
Absorbance @ 280 nm (6 M in H2O) <0.02

Al 5 ppm	As 0.1 ppm	Ba 5 ppm
Bi 5 ppm	Ca 10 ppm	Cd 5 ppm
Co 5 ppm	Cr 5 ppm	Cu 5 ppm
Fe 5 ppm	K 50 ppm	Li 5 ppm
Mg 5 ppm	Mn 5 ppm	Mo 5 ppm
Na 50 ppm	Ni 5 ppm	Pb 5 ppm
Sr 5 ppm	Zn 5 ppm	

CAS # 50-01-1 DOT NR

41501 100 G

HAFNIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1745

Concentration 10,000 ± 100 ug/ml Matrix: 5% Hydrochloric acid
NIST Traceable

DOT 8/III

22450 100 ML
22452 500 ML

Specific Gravity 1.010

HAFNIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1744

Concentration 1,000 ± 10 ug/ml Matrix: 5% Hydrochloric acid
NIST Traceable

DOT 8/III

22440 100 ML
22442 500 ML

Specific Gravity 1.010

HAFNIUM FLUORIDE, 99.99% — ITEM A3451

HfF_4 F.W. 254.48

CAS # 13709-52-9 DOT 8/6.1/II

41651 5 G

HAFNIUM OXIDE, 99.9% — ITEM A3438

May contain up to 1% Zirconium.

HfO_2 F.W. 210.49

Assay (Hf+Zr metals basis) 99.9% Zirconium 1%

CAS # 12055-23-1 DOT NR

41671 5 G
41672 25 G

HAFNIUM OXYCHLORIDE — ITEM A3444

$HfOCl_2 \bullet 8H_2O$ F.W. 409.52

CAS # 13759-17-6 DOT NR

41691 10 G

HALOGEN REAGENT

See Organic Halogen Reagent

HARDNESS BUFFER

See Water Hardness Buffer Solution

HARDNESS BUFFER, pH 10

See Ammoniacal Buffer, pH 10

H

1H-BENZOTRIAZOLE

See Benzotriazole, 99%

HEDTA, SODIUM SALT

See Hydroxyethylethylenediaminetriacetic Acid, Trisodium Salt

6,8-HENEICOSADIYNOIC ACID, 98% ITEM 3472

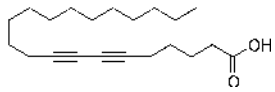
Not on the TSCA Inventory, for R&D purposes only.

$CH_3(CH_2)_{11}C{\equiv}CC{\equiv}C(CH_2)_4COOH$ F.W. 318.50

Assay (GC-FID by Esterification), 97.5% min
Identification by GC/MS - Conforms
Appearance - Off-white to blue solid

CAS # 174063-94-6 DOT NR

10030 1 G
10031 10 G



8,10-HENEICOSADIYNOIC ACID, 96% ITEM 3154

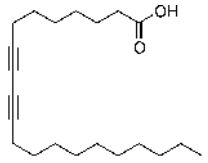
Requires refrigeration. Not on the TSCA inventory.

$CH_3(CH_2)_9C{\equiv}CC{\equiv}C(CH_2)_6COOH$ F.W. 318.50

Assay 96%
Melting point 51-52 C

CAS # 174063-95-7 DOT 9/III

Please Inquire For Sizes



10,12-HENEICOSADIYNOIC ACID, 98% ITEM 9277

$CH_3(CH_2)_7C{\equiv}CC{\equiv}C(CH_2)_8COOH$ F.W. 318.50

Assay (GC-FID by Esterification), 97.5% min
Identification by GC/MS - Conforms

CAS # 28393-00-2 DOT NR

20821 1 G
20822 5 G

10,12-HEPTACOSADIYNOIC ACID, 98% ITEM 3446

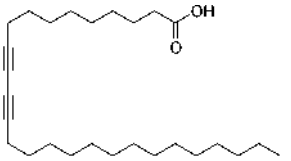
Not on the TSCA inventory.

$CH_3(CH_2)_{13}C{\equiv}CC{\equiv}C(CH_2)_8COOH$ F.W. 402.66

Assay (GC-FID by Esterification), 97.5% min
Identification by GC/MS - Conforms
Appearance - Off-white to light blue waxy solid

CAS # 67071-94-7 DOT NR

41661 1 G
41662 5 G



4,6-HEPTADECADIYNOIC ACID, 98% ITEM 3155

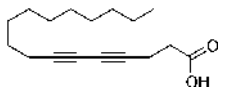
Requires refrigeration. Not on the TSCA inventory.

$CH_3(CH_2)_9C{\equiv}CC{\equiv}C(CH_2)_2COOH$ F.W. 262.39

Assay (GC-FID by Esterification), 97.5% min
Assay (HPLC area % at 226 nm), 97.5% min
Identification by GC/MS - Conforms
Insolubles / Polymers, 1.5% max
Appearance - White to blue solids/flakes

CAS # 84975-52-0 DOT 9/III

81511 1 G
81512 5 G



2,4-HEPTADECADIYN-1-OL, 98% ITEM 3156

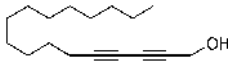
Not on the TSCA inventory.

$CH_3(CH_2)_{11}C{\equiv}CC{\equiv}CCH_2OH$ F.W. 248.41

Assay 98% min.
Melting point 57-59 C

CAS # 64034-03-3 DOT 6.1/III

Please Inquire For Sizes



H

1-HEPTADECENE, 97% ITEM 3157

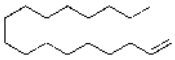
$CH_3(CH_2)_{14}CH=CH_2$ F.W. 238.46

Assay (GC-FID), 96.5% min
Color - Colorless to yellow
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 6765-39-5 DOT 9/III

81531 10 G
81532 50 G

Specific Gravity 0.785



1-HEPTADECYNE, 97% ITEM 3424

Not on the TSCA inventory.

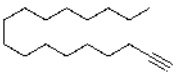
$CH_3(CH_2)_{14}C\equiv CH$ F.W. 236.44

Assay (GC-FID), 96.5% min
Appearance - Clear, colorless to yellow liquid
Identification by GC/MS - Conforms
Exists in solid state when < 26 C

CAS # 26186-00-5 DOT 9/III

41831 10 G
41832 50 G

Specific Gravity 0.800

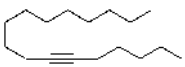


6-HEPTADECYNE ITEM 5229

Not on the TSCA inventory.

$CH_3(CH_2)_9C\equiv C(CH_2)_4CH_3$ F.W. 236.44

Please Inquire For Sizes



1,6-HEPTADIYNE, 97% ITEM 3158

$HC\equiv C(CH_2)_3C\equiv CH$ F.W. 92.14

Assay (GC-FID), 96.5% min
Color - Colorless to yellow
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 2396-63-6 DOT 3/II

81543 5 G
81542 50 G
81544 250 G
81545 1 KG

Specific Gravity 0.805

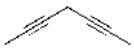
2,5-HEPTADIYNE ITEM 3875

Not on the TSCA inventory.

$CH_3C\equiv CCH_2C\equiv CCH_3$ F.W. 92.14

CAS # 50428-63-2

Please Inquire For Sizes



2,4-HEPTADIYN-1-OL, CRUDE ITEM 5592

$C_2H_5C\equiv CC\equiv CCH_2OH$ F.W. 108.14

Contained Product % - Report
Tars % - Report
MTBE % - Report
Identification by GC/MS - Conforms
Methanol % - Report
Assay (GC-FID) (without solvent %) - Report

CAS # 120569-51-9 DOT 3/III

Please Inquire For Sizes

n-HEPTANE, VERITAS® ULTIMATE ITEM 5567

$CH_3(CH_2)_5CH_3$ F.W. 100.20

Assay (as n-Heptane) 99.0% min
ECD responsive substances 5 pg/ml
Color (APHA) 10 max
UV at 220 nm 0.2 AU max
UV at 260 nm 0.01 AU max
Assay (total isomers) 99.9%
Residue after evaporation 0.0001%
UV cut-off 197 nm
UV at 250 nm 0.02 AU max
Fluorescence (as quinine base) 500 ppt max

Water 0.01%

CAS # 142-82-5 DOT 3/II NFPA # 1-3-0

18051 4 L
18052 4 X 4 L

Specific Gravity 0.684

HEPTANE, DISTILLED IN GLASS ITEM 1239

Suitable for pesticide analysis, gas chromatography, liquid chromatography and ultraviolet spectrophotometry.

$CH_3(CH_2)_5CH_3$ F.W. 100.20

Assay (by glc) 99.0%
Chlorinated hydrocarbon residue 10pg/ml
UV Absorbance @ 280 nm 0.01
UV Absorbance @ 220 nm 0.20
Water 0.01%
Residue after evaporation 0.0003%
UV Absorbance @ 250 nm 0.02
UV Absorbance @ 200 nm 1.00

CAS # 142-82-5 DOT 3/II NFPA # 1-3-0

41713 1 L
41714 6 X 1 L
41711 4 L
41712 4 X 4 L

Specific Gravity 0.684

H

HEPTANE, HPLC — ITEM 2487

C_7H_{16} F.W. 100.20

Assay (as n-Heptane) 96% min.
Water 0.01%
UV Absorbance at 210 nm 0.50
Residue after evaporation 0.001%
UV Absorbance at 197 nm 1.00
UV Absorbance at 260 nm 0.01 max

CAS # 142-82-5 DOT 3/II

41791	1 L
41792	6 X 1 L
41793	4 L
41794	4 X 4 L

Specific Gravity 0.684

HEPTANE, REAGENT GRADE — ITEM 1682

C_7H_{16} F.W. 100.20

Assay (as n-heptane) 95% min
Acidity Pass Test (0.002%)
Water 0.01%
Residue after evaporation 0.001%
Sulfur compounds (as SO4) 0.005%

CAS # 142-82-5 DOT 3/II

41723	500 ML
41727	6 X 500 ML
41721	4 L
41722	4 X 4 L

Specific Gravity 0.684

1-HEPTANOIC ACID, 97% — ITEM 3476

Enanthic acid

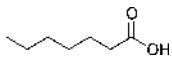
$CH_3(CH_2)_5COOH$ F.W. 130.19

Assay (GC-FID), 96.5% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 111-14-8 DOT 8/III

10131	500 ML
10132	1 L

Specific Gravity 0.918



1-HEPTANOL, 99% — ITEM 4809

n-Heptyl alcohol

$CH_3(CH_2)_6OH$ F.W. 116.20

Assay (GC-FID), 98.5% min
H2O (KF), 0.5% max
Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 111-70-6 DOT 9/III

17671	4 L

Specific Gravity 0.822

1-HEPTENE, 98+% — ITEM 3160

$CH_3(CH_2)_4CH=CH_2$ F.W. 98.19

Assay (GC-FID), 98.0% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 592-76-7 DOT 3/II

81561	25 G
81562	100 G
81563	1.5 KG
81564	12.5 KG
81565	140 KG

Specific Gravity 0.697

cis-2-HEPTENE, 95% — ITEM 5303

Not on the TSCA inventory.

$CH_3(CH_2)_3CH=CHCH_3$ F.W. 98.19

Assay (GC-FID), 94.0% min
Appearance - Clear, colorless liquid

CAS # 6443-92-1 DOT 3/II NFPA # 0-3-0

20451	5 G
20452	25 G

trans-2-HEPTENE, 98% — ITEM 3161

Not on the TSCA inventory.

$CH_3(CH_2)_3CH=CHCH_3$ F.W. 98.19

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms

CAS # 14686-13-6 DOT 3/II NFPA # 0-3-0

81571	5 G
81572	25 G

Specific Gravity 0.701

trans-3-HEPTENE, 97% — ITEM 3163

Not on the TSCA inventory.

$CH_3(CH_2)_2CH=CHCH_2CH_3$ F.W. 98.19

Assay (GC-FID), 96.5% min
Identification by GC/MS - Conforms

CAS # 14686-14-7 DOT 3/II

81581	5 G
81582	25 G

Specific Gravity 0.698

1-HEPTEN-3-OL, 98% — ITEM 3372

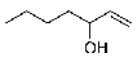
CH_2=CHCH(OH)$(CH_2)_3CH_3$ F.W. 114.19

Assay 98%

CAS # 4938-52-7 DOT 3/III NFPA # 1-2-0

Please Inquire For Sizes

Specific Gravity 0.836



1-HEPTEN-3-YNE — ITEM 3876

Not on the TSCA inventory.

$CH_3(CH_2)_2C{\equiv}CCH{=}CH_2$ F.W. 94.16

CAS # 2384-73-8

Please Inquire For Sizes

1-HEPTEN-4-YNE — ITEM 3877

Not on the TSCA inventory.

$CH_3CH_2C{\equiv}CCH_2CH{=}CH_2$ F.W. 94.16

CAS # 19781-78-3

Please Inquire For Sizes

1-HEPTEN-6-YNE — ITEM 3878

Not on the TSCA inventory.

$HC{\equiv}C(CH_2)_3CH{=}CH_2$ F.W. 94.16

Assay 98%

CAS # 65939-59-5 DOT 3/II

Please Inquire For Sizes

HEPTYL ALCOHOL

See 1-Heptanol, 99%

N-HEPTYL ALCOHOL

See 1-Heptanol, 99%

HEPTYL BROMIDE

See 1-Bromoheptane, 99%

HEPTYL IODIDE

See 1-Iodoheptane

1-HEPTYNE, 98% — ITEM 3164

$CH_3(CH_2)_4C{\equiv}CH$ F.W. 96.17

Assay (GC-FID), 97.5% min
Color - 20 APHA max
Identification by GC/MS - Conforms
Appearance - Clear liquid

CAS # 628-71-7 DOT 3/II

81591	25 G
81592	100 G
81593	500 G
81594	1.5 KG
81595	12.5 KG
81596	40 KG
81597	145 KG

Specific Gravity 0.733

2-HEPTYNE, 98% — ITEM 3165

Not on the TSCA inventory.

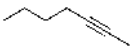
$CH_3(CH_2)_3C{\equiv}CCH_3$ F.W. 96.17

Assay (GC-FID), 97.5% min
Stabilizer (BHT), Confirm presence
Clarity / Form - Clear, liquid
Identification by GC/MS - Conforms
Color - Colorless to very faint yellow

CAS # 1119-65-9 DOT 3/II

81601	10 G
81602	50 G
81603	1 KG

Specific Gravity 0.745



3-HEPTYNE, 98% — ITEM 3166

Not on the TSCA inventory.

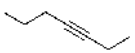
$CH_3(CH_2)_2C{\equiv}CCH_2CH_3$ F.W. 96.17

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms

CAS # 2586-89-2 DOT 3/II

81611	10 G
81612	50 G

Specific Gravity 0.753



2-HEPTYNOIC ACID — ITEM 3879

Not on the TSCA inventory.

$CH_3(CH_2)_3C{\equiv}CCOOH$ F.W. 126.16

CAS # 1483-67-6

Please Inquire For Sizes

6-HEPTYNOIC ACID, 98% — ITEM 3167

Not on the TSCA inventory.

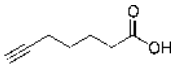
$HC{\equiv}C(CH_2)_4COOH$ F.W. 126.16

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms

CAS # 30964-00-2 DOT 8/III

81621	5 G
81622	25 G
81623	100 G
81624	500 G

Specific Gravity 0.997



2-HEPTYNOIC ACID, ETHYL ESTER

See Ethyl 2-Heptynoate

6-HEPTYNOIC ACID, ETHYL ESTER

See Ethyl 6-Heptynoate, 97%

1-HEPTYN-3-OL, 98% — ITEM 3168

Not on the TSCA inventory.

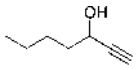
$CH_3(CH_2)_3CH(OH)C{\equiv}CH$ F.W. 112.17

Assay (GC-FID), 97.5% min
H2O (KF), 0.5% max
Identification by GC/MS - Conforms

CAS # 7383-19-9 DOT 3/III

81631	10 G
81632	50 G

Specific Gravity 0.867



2-HEPTYN-1-OL, 98% — ITEM 3169

Not on the TSCA inventory.

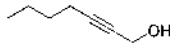
$CH_3(CH_2)_3C{\equiv}CCH_2OH$ F.W. 112.17

Assay (GC-FID), 97.5% min
H2O (KF), 0.5% max
Clarity / Form - Clear, liquid
Identification by GC/MS - Conforms
Color - Colorless to yellow

CAS # 1002-36-4 DOT 9/III

81641	10 G
81642	50 G

Specific Gravity 0.880



3-HEPTYN-1-OL, 98% — ITEM 3170

Not on the TSCA inventory.

$CH_3(CH_2)_2C{\equiv}CCH_2CH_2OH$ F.W. 112.17

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless to yellow liquid
Identification by GC/MS - Conforms
H2O (KF), 0.5% max

CAS # 14916-79-1 DOT 9/III

81651	25 G
81652	100 G

Specific Gravity 0.884

4-HEPTYN-2-OL, 97% — ITEM 3171

Not on the TSCA inventory.

$CH_3CH_2C{\equiv}CCH_2CH(OH)CH_3$ F.W. 112.17

Assay (GC-FID), 96.5% min
Appearance - Clear, colorless to yellow liquid
Identification by GC/MS - Conforms

CAS # 19781-81-8 DOT 9/III

81661	10 G
81662	50 G

4-HEPTYN-3-OL, 97% — ITEM 3880

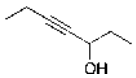
Not on the TSCA inventory.

$CH_3CH_2C{\equiv}CCH(OH)CH_2CH_3$ F.W. 112.17

Assay (GC-FID), 96.5% min
H2O (KF), 0.5% max
Clarity / Form - Clear, liquid
Identification by GC/MS - Conforms
Color - Colorless to yellow

CAS # 32398-69-9 DOT NR

18981	10 G
18982	50 G
18983	250 G



5-HEPTYN-3-OL, 98% — ITEM 3394

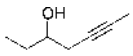
Not on the TSCA inventory.

$CH_3CH_2CH(OH)CH_2C{\equiv}CCH_3$ F.W. 112.17

Assay (GC-FID), 97.5% min

CAS # 19781-82-9 DOT 9/III

84881	5 G
84882	25 G
84883	100 G



HEXAAMMINECOBALT (III) CHLORIDE, 99.999% — ITEM 5082

$[Co(NH_3)_6]Cl_3$ F.W. 267.48

Assay (metals basis) 99.999% min.

CAS # 10534-89-1 DOT NR

87781	5 G
87782	25 G

HEXAAMMINECOBALT (III) CHLORIDE — ITEM 5367

$[Co(NH_3)_6]Cl_3$ F.W. 267.48

Assay 99%

CAS # 10534-89-1 DOT NR

15341	25 G
15342	100 G

HEXACHLOROPLATINIC ACID HEXAHYDRATE

See Chloroplatinic Acid, Hexahydrate

7,9-HEXADECADIYNEDIOIC ACID, 98% — ITEM 5548

Light sensitive, protect from light. Not on the TSCA inventory.

$C_{16}H_{22}O_4$ F.W. 278.34

Assay (GC-FID by Esterification), 97.5% min
Identification by GC/MS - Conforms

CAS # 33128-29-9 DOT NR

Please Inquire For Sizes

5,7-HEXADECADIYNOIC ACID, 98% — ITEM 3407

Light sensitive, protect from light. Not on the TSCA inventory.

$CH_3(CH_2)_7C{\equiv}CC{\equiv}C(CH_2)_3COOH$ F.W. 248.37

Assay (GC-FID by Esterification), 97.5% min
Polymer, 3.0% max
Form - Powder or flakes
Identification by GC/MS - Conforms
Color - Off-white to blue

CAS # 28393-01-3 DOT 9/III

89611	2 G
89612	10 G

HEXADECANOIC ACID

See Palmitic Acid

HEXADECYL IODIDE

See 1-Iodohexadecane

HEXADECYLTRIMETHYLAMMONIUM BROMIDE

See Cetyltrimethylammonium Bromide, 98%

1-HEXADECYNE, 90+% — ITEM 3173

Tetradecylacetylene

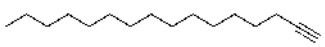
$CH_3(CH_2)_{13}C{\equiv}CH$ F.W. 222.42

Assay (GC-FID) 90.0% min.
Appearance - Clear, colorless to yellow liquid
Identification by GC/MS - Conforms

CAS # 629-74-3 DOT 9/III

81681	25 G
81682	100 G

Specific Gravity 0.796



7-HEXADECYN-1-OL, 97% — ITEM 3174

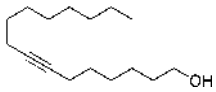
Not on the TSCA inventory.

$CH_3(CH_2)_7C{\equiv}C(CH_2)_6OH$ F.W. 238.40

Assay (GC-FID), 96.5% min Appearance - Clear, colorless to yellow liquid

CAS # 822-21-9 DOT 9/III

81691 5 G
81692 25 G



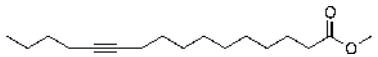
11-HEXADECYNYL ACETATE, 95% — ITEM 3176

Not on the TSCA inventory.

$CH_3(CH_2)_3C{\equiv}C(CH_2)_{10}OCOCH_3$ F.W. 280.45

CAS # 53596-80-8

81711 1 G
81712 5 G



2,4-HEXADIYN-1,6-DIOL, 97% — ITEM 3178

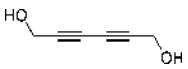
Not on the TSCA inventory.

$HOCH_2C{\equiv}CC{\equiv}CCH_2OH$ F.W. 110.11

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms

CAS # 3031-68-3 DOT NR

81731 5 G
81732 25 G
81733 100 G
81734 500 G
81735 5 KG



2,4-HEXADIYNE, 99% — ITEM 3180

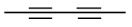
Not on the TSCA inventory.

$CH_3C{\equiv}CC{\equiv}CCH_3$ F.W. 78.12

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to dark yellow solid

CAS # 2809-69-0 DOT 4.1/II

81751 5 G
81752 25 G



HEXAFLUOROPHOSPHORIC ACID. 60% in WATER — ITEM 2551

HPF_6 F.W. 145.97

Assay (HPF6) 58.0-62.0%

CAS # 16940-81-1 DOT 8/II

41811 100 ML
41812 500 ML

Specific Gravity 1.651

HEXAFLUOROSILICIC ACID

See Fluorosilicic Acid, 20-25%

HEXAMETHYLDISILAZANE, 98% — ITEM 3181

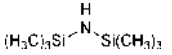
$[(CH_3)_3Si]_2NH$ F.W. 161.40

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 999-97-3 DOT 3/II NFPA # 1-3-1

81762 500 G
81763 15 KG

Specific Gravity 0.765



HEXAMETHYLDISILOXANE, 98% — ITEM 3182

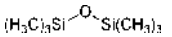
$[(CH_3)_3Si]_2O$ F.W. 162.38

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Color - Colorless Clarity / Form - Clear, liquid

CAS # 107-46-0 DOT 3/II

81771 100 G
81772 500 G

Specific Gravity 0.764



HEXAMETHYLENETETRAMINE, REAGENT (ACS) — ITEM 927

Product is not suitable for making formazin.

$C_6H_{12}N_4$ F.W. 140.19

Assay 99.0% min. Loss on drying 2.0%
Heavy metals (as Pb) 0.001% Residue after ignition 0.1%

CAS # 100-97-0 DOT 4.1/III NFPA # 1-1-1

41701 500 G
41702 2.5 KG
41703 10 KG
41704 50 KG

HEXAMETHYLPARAROSANILINE CHLORIDE

See Crystal Violet

HEXAMETHYLPHOSPHORAMIDE, 99% ITEM 3744

$[(CH_3)_2N]_3PO$ F.W. 179.20

Assay (GC-FID), 98.5% min
Color - Colorless to light yellow
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 680-31-9 DOT 9/III

11361	100 G
11362	500 G
11363	2.5 KG

Specific Gravity 1.030

n-HEXANE, VERITAS® ULTIMATE ITEM 5568

C_6H_{14} F.W. 86.18

Assay (as n-Hexane) 95%
ECD responsive substances 5 pg/ml
Residue after evaporation 0.0001%
UV Cut-off 195 max
UV at 210 nm 0.2 AU max
UV at 230 nm 0.01 AU max
Water 0.01%
Assay (as C6 Hydrocarbons) 99.0%
FID responsive substances 5 ug/L
Fluorescence (as quinine base) 500 ppt
UV at 200 nm 0.5 AU max
UV at 220 nm 0.06 AU max
Color (APHA) 10 max

CAS # 110-54-3 DOT 3/II NFPA # 1-3-0

18061	4 L
18062	4 X 4 L

Specific Gravity 0.687

HEXANE, DISTILLED IN GLASS ITEM 1231

Suitable for pesticide analysis, gas chromatography, liquid chromatography and ultraviolet spectrophotometry.

C_6H_{14} F.W. 86.18

n-Hexane 95.0% min.
Residue after evaporation 0.0003%
Chlorinated hydrocarbon residue 10 pg/ml
Water 0.01%

CAS # 110-54-3 DOT 3/II NFPA # 1-3-0

41743	1 L	**$**
41744	6 X 1 L	
41741	4 L	
41742	4 X 4 L	

Specific Gravity 0.687

HEXANES, HPLC ITEM 2497

Mixture of hexane isomers plus methylcyclopentane

C_6H_{14} F.W. 86.18

Assay (total isomers) 98.5% min.
UV Absorbance at 210 nm 0.25
UV Absorbance at 280 nm 0.01
Sulfur compounds 0.005%
Water soluble titrable acid 0.0003 meq/g
Water 0.02%
UV Absorbance at 195 nm 1.00
UV Absorbance at 220 nm 0.08
Residue after evaporation 0.0005%
Color (APHA) 10 max.
Thiophene - Pass test

CAS # 110-54-3 DOT 3/II NFPA # 1-3-0

41771	1 L
41772	6 X 1 L
41773	4 L
41774	4 X 4 L

Specific Gravity 0.659

HEXANES, for EPA METHOD 1664A ITEM 5328

Meets specifications for EPA method 1664, Revision A, n-Hexane Extractable Material by Extraction and Gravimetry.

C_6H_{14} F.W. 86.18

Assay (as n-Hexane) 85% min
Residue after evaporation 1 mg/L
Assay (total C6 saturated hydrocarbons) 99.0%

CAS # 110-54-3 DOT 3/II NFPA # 1-3-0

15241	1 L
15242	6 X 1 L
15243	4 L
15244	4 X 4 L

Specific Gravity 0.659

HEXANES, REAGENT (ACS) ITEM 928

A mixture of hexane isomers plus methylcyclopentane.

C_6H_{14} F.W. 86.18

Assay 98.5% min.
Residue after evaporation 0.001%
Sulfur compounds 0.005%
Color (APHA) 10 max.
Water-soluble titrable acid 0.0003 meq/g
Thiophene-pass test

CAS # 110-54-3 DOT 3/II NFPA # 1-3-0

41754	1 L
41755	6 X 1 L
41752	4 L
41753	4 X 4 L
41756	20 L

Specific Gravity 0.659

n-HEXANE-MTBE 80-20 MIXTURE ITEM 2350

Substitute for Freon® in the EPA test for oil and grease in stormwater.

n-Hexane (Area % by GC-FID), 75.0-85.0%
Density (at 20 C), 0.670-0.680 g/ml
MTBE (Area % by GC-FID), 15.0-25.0%
Appearance - Clear, colorless liquid

DOT 3/II NFPA # 1-3-0

41761	1 L
41762	4 L

Specific Gravity 0.681

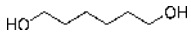
1,6-HEXANEDIOL, 98% — ITEM 3183

$HO(CH_2)_6OH$ F.W. 118.18

Assay (GC-FID), 97.5% min
H2O (KF), 0.5% max
Form - Pellets, Flakes, Crystal, or Powder
Identification by GC/MS - Conforms
Color - White

CAS # 629-11-8 DOT NR

81782	100 G
81781	1 KG
81783	10 KG
81784	50 KG



2,5-HEXANEDIONE

See Acetonyl Acetone, 97%

HEXANITRATOAMMONIUM CERATE

See Ceric Ammonium Nitrate

1-HEXANOL

See n-Hexyl Alcohol, 98%

1-HEXENE, 97% — ITEM 3414

$CH_3(CH_2)_3CH=CH_2$ F.W. 84.16

Assay (GC-FID), 96.5% min
Color - Colorless
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 592-41-6 DOT 3/II

89671	100 ML

Specific Gravity 0.673

cis-2-HEXENE, 95% — ITEM 3184

$CH_3(CH_2)_2CH=CHCH_3$ F.W. 84.16

Assay (GC-FID), 94.0% min
Color - Colorless
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 7688-21-3 DOT 3/II NFPA # 1-3-0

81791	5 G
81792	25 G
81795	250 G
81793	1 KG
81794	13.5 KG

Specific Gravity 0.684

trans-2-HEXENE, 98% — ITEM 3185

$CH_3(CH_2)_2CH=CHCH_3$ F.W. 84.16

Assay (GC-FID) - 97.5% min.
Color - 20 APHA max.
Identification by GC/MS - Conforms
Clarity / Form - Clear Liquid

CAS # 4050-45-7 DOT 3/II NFPA # 1-3-0

81801	5 G
81802	25 G
81803	100 G
81804	500 G

Specific Gravity 0.669

cis-3-HEXENE, 97% — ITEM 3187

Not on the TSCA inventory.

$CH_3CH_2CH=CHCH_2CH_3$ F.W. 84.16

Assay (GC-FID), 96.5% min
Color - Colorless
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 7642-09-3 DOT 3/II

81821	10 G
81822	50 G
81823	250 G
81824	1 KG

Specific Gravity 0.677

trans-3-HEXENE, 99% — ITEM 3417

Not on the TSCA inventory.

$CH_3CH_2CH=CHCH_2CH_3$ F.W. 84.16

Assay (GC-FID), 98.5% min
Stabilizer (BHT), Confirm presence
Clarity / Form - Clear, liquid
Identification by GC/MS - Conforms
Color - Colorless

CAS # 13269-52-8 DOT 3/II

89701	5 G
89702	25 G
89703	100 G

Specific Gravity 0.677

trans-3-HEXENE, 97% — ITEM 3188

Not on the TSCA inventory.

$CH_3CH_2CH=CHCH_2CH_3$ F.W. 84.16

Assay (GC-FID), 96.5% min
Stabilizer (BHT), Confirm presence
Clarity / Form - Clear, liquid

Identification by GC/MS - Conforms
Color - Colorless

CAS # 13269-52-8 DOT 3/II

81831	10 G
81832	50 G
81833	250 G
81834	1 KG

Specific Gravity 0.677

5-HEXENOIC ACID, 98% — ITEM 3455

Not on the TSCA inventory.

$H_2C=CH(CH_2)_3COOH$ F.W. 114.14

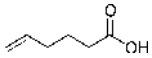
Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms
Color - Colorless to yellow

Assay (Acid-base titration), 97.5% - 102.5%
H2O (KF), 0.5% max
Clarity / Form - Clear, liquid

CAS # 1577-22-6 DOT 8/III

11371	1 G
11372	5 G

Specific Gravity 0.961



cis-3-HEXEN-1-OL, 98% — ITEM 3190

$CH_3CH_2CH=CH(CH_2)_2OH$ F.W. 100.16

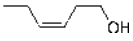
Assay (GC-FID), 97.5% min
H2O (KF), 0.5% max

Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 928-96-1 DOT 3/III NFPA # 0-2-0

81852	5 G
81851	25 G

Specific Gravity 0.846



5-HEXEN-1-OL, 98% — ITEM 5648

Clear Liquid

$H_2C=CH(CH_2)_4OH$ F.W. 100.16

Assay (GC-FID) 97.5% min.
H2O (KF) 0.5% max

Identification by GC/MS - Conforms
Color (APHA) - 50 max

CAS # 821-41-0 DOT 3/III

Please Inquire For Sizes

5-HEXEN-1-OL, 90% — ITEM 3393

$H_2C=CH(CH_2)_4OH$ F.W. 100.16

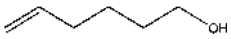
Assay (GC-FID), 88.0% min
H2O (KF), 0.5% max
Clarity / Form - Clear, liquid

Identification by GC/MS - Conforms
Color - Colorless to yellow

CAS # 821-41-0 DOT 3/III

83711	25 G
83712	100 G

Specific Gravity 0.842



5-HEXENYLAMINE

See 1-Amino-5-Hexene

1-HEXEN-3-YNE — ITEM 3884

Not on the TSCA inventory.

$CH_2=CHC\equiv CCH_2CH_3$ F.W. 80.13

CAS # 13721-54-5

Please Inquire For Sizes

Specific Gravity 0.749

1-HEXEN-4-YNE — ITEM 3885

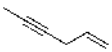
Not on the TSCA inventory.

$CH_2=CHCH_2C\equiv CCH_3$ F.W. 80.13

CAS # 5009-11-0

Please Inquire For Sizes

Specific Gravity 0.767



1-HEXEN-5-YNE, 98% — ITEM 3886

Not on the TSCA inventory.

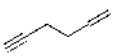
$CH_2=CHCH_2CH_2C\equiv CH$ F.W. 80.13

Assay 98%

CAS # 14548-31-3 DOT 3/II

Please Inquire For Sizes

Specific Gravity 0.765



n-HEXYL ALCOHOL, 98% — ITEM 1087

1-HEXANOL

$CH_3(CH_2)_5OH$ F.W. 102.17

Assay (GC-FID), 97.5% min
FT-IR Spectra - Conforms
Copper, 5 ppm max
Identification by GC/MS - Conforms
Iron, 5 ppm max
Color (APHA), 10 max

CAS # 111-27-3 DOT 3/III NFPA # 1-2-1

41801	500 ML
41802	4 L

Specific Gravity 0.815

HEXYL BROMIDE

See 1-Bromohexane, 98%

HEXYLENE GLYCOL

See 2-Methyl-2,4-Pentanediol, 99%

HEXYL IODIDE

See 1-Iodohexane, 98%

HEXYLMAGNESIUM BROMIDE, 0.8 M, in TETRAHYDROFURAN — ITEM 3979

$CH_3(CH_2)_5MgBr$ F.W. 189.39

Active Grignard concentration, 0.8M ± 0.2
Density (g/ml), Report

CAS # 3761-92-0 DOT 4.3/3/II

Please Inquire For Sizes

Specific Gravity 0.980

3-HEXYN-1,6-DIOL, 97% — ITEM 3447

$HOCH_2CH_2C{\equiv}CCH_2CH_2OH$ F.W. 114.15

Assay (GC-FID), 96.5% min
Color - White to light yellow
Identification by GC/MS - Conforms
Form - Crystal or powder

CAS # 85655-98-7 DOT NR

41861	10 G
41862	50 G

1-HEXYNE, 98% — ITEM 3193

Stabilized with BHT

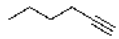
$CH_3(CH_2)_3C{\equiv}CH$ F.W. 82.15

Assay (GC-FID), 97.5% min
Stabilizer (BHT), Confirm presence
Clarity / Form - Clear, liquid
Identification by GC/MS - Conforms
Color - Colorless

CAS # 693-02-7 DOT 3/II

81881	25 G
81882	100 G
81883	500 G
81884	2.5 KG
81885	12.5 KG
81886	40 KG
81887	145 KG

Specific Gravity 0.715



2-HEXYNE, 98% — ITEM 3194

Not on the TSCA inventory.

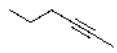
$CH_3(CH_2)_2C{\equiv}CCH_3$ F.W. 82.15

Assay (GC-FID), 97.5% min
Stabilizer (BHT), Confirm presence
Clarity / Form - Clear, liquid
Identification by GC/MS - Conforms
Color - Colorless

CAS # 764-35-2 DOT 3/II

81891	25 G
81892	100 G
81894	1 KG
81895	13.5 KG
81896	40 KG
81897	145 KG

Specific Gravity 0.731



3-HEXYNE, 99% — ITEM 3195

Not on the TSCA inventory.

$CH_3CH_2C{\equiv}CCH_2CH_3$ F.W. 82.15

Assay (GC-FID), 98.5% min
Stabilizer (BHT), Confirm presence
Clarity / Form - Clear, liquid
Identification by GC/MS - Conforms
Color - Colorless

CAS # 928-49-4 DOT 3/II

81901	10 G
81902	50 G
81903	1 KG
81904	13.5 KG

Specific Gravity 0.723

3-HEXYNE, 96% — ITEM 3426

Not on the TSCA inventory

$CH_3CH_2C{\equiv}CCH_2CH_3$ F.W. 82.15

Assay (GC-FID), 95.0% min
Stabilizer (BHT), Confirm presence
Appearance, Clear liquid

Identification by GC/MS - Conforms
Color, 50 APHA max

CAS # 928-49-4 DOT 3/II

41841	10 G
41842	50 G
41843	250 G
41844	1 KG

Specific Gravity 0.723

2-HEXYNOIC ACID, 96% — ITEM 3196

Not on the TSCA inventory.

$CH_3(CH_2)_2C{\equiv}CCOOH$ F.W. 112.13

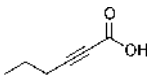
Assay (Acid-base titration), 95.0% - 105.0%

Appearance - White to yellow crystal/solid

CAS # 764-33-0 DOT NR

81911	10 G
81912	50 G

Specific Gravity 0.992



5-HEXYNOIC ACID, 96% — ITEM 3197

Not on the TSCA inventory.

$HC{\equiv}C(CH_2)_3COOH$ F.W. 112.13

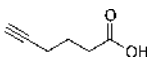
Assay (GC-FID) - 95.0% min.
Color - 150 APHA max.

Identification by GC/MS - Conforms
Clarity / Form - Clear Liquid

CAS # 53293-00-8 DOT 8/III

81921	5 G
81922	25 G
81923	100 G
81924	500 G
81925	3.5 KG

Specific Gravity 0.990



1-HEXYN-3-OL, 98% — ITEM 3198

$CH_3(CH_2)_2CH(OH)C{\equiv}CH$ F.W. 98.15

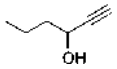
Assay (GC-FID), 97.5% min
H2O (KF), 0.5% max

Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 105-31-7 DOT 6.1/3/I

81933	5 G
81931	25 G
81932	100 G
81934	1 KG

Specific Gravity 0.872



2-HEXYN-1-OL, 97% — ITEM 3199

Not on the TSCA inventory.

$CH_3(CH_2)_2C{\equiv}CCH_2OH$ F.W. 98.15

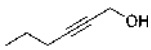
Assay (GC-FID), 96.5% min
H2O (KF), 0.5% max

Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 764-60-3 DOT NR

81941	10 G
81942	50 G

Specific Gravity 0.897



3-HEXYN-1-OL, 98% — ITEM 3200

$CH_3CH_2C{\equiv}CCH_2CH_2OH$ F.W. 98.15

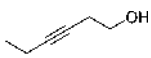
Assay (GC-FID), 97.5% min
H2O (KF), 0.5% max
Clarity / Form - Clear, liquid

Identification by GC/MS - Conforms
Color - Colorless to yellow

CAS # 1002-28-4 DOT 9/III

81953	5 G
81951	25 G
81952	100 G
81954	1 KG

Specific Gravity 0.870



H

3-HEXYN-2-OL, 98% — ITEM 3201

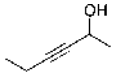
$CH_3CH_2C{\equiv}CCH(OH)CH_3$ F.W. 98.15

Assay (GC-FID), 97.5% min
H2O (KF), 0.5% max
Clarity / Form - Clear, liquid
Identification by GC/MS - Conforms
Color - Colorless to yellow

CAS # 109-50-2 DOT 3/III

81961	5 G
81962	25 G
81963	100 G
81964	500 G
81965	2 KG
81966	18 KG
81967	50 KG

Specific Gravity 0.909



4-HEXYN-3-OL, 98% — ITEM 3391

Not on the TSCA inventory.

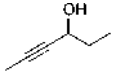
$CH_3CH_2CH(OH)C{\equiv}CCH_3$ F.W. 98.15

Assay (GC-FID), 97.5% min

CAS # 20739-59-7 DOT 3/III

89521	10 G
89522	50 G
89523	250 G

Specific Gravity 0.894



5-HEXYN-1-OL, 97% — ITEM 3202

Not on the TSCA inventory.

$HC{\equiv}C(CH_2)_3CH_2OH$ F.W. 98.15

Assay (GC-FID), 96.5% min
H2O (KF), 0.5% max
Clarity / Form - Clear liquid
Identification by GC/MS - Conforms
Color - Colorless to yellow

CAS # 928-90-5 DOT NR

81970	2 G
81971	10 G
81972	50 G
81973	250 G
81974	1 KG

Specific Gravity 0.880

5-HEXYN-3-OL, 98% — ITEM 3392

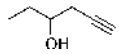
$CH_3CH_2CH(OH)CH_2C{\equiv}CH$ F.W. 98.15

Assay (GC-FID), 97.5% min

CAS # 19780-84-8 DOT 3/III

89531	5 G
89532	25 G
89533	100 G

Specific Gravity 0.892



3-HEXYN-2-ONE, 97% — ITEM 3203

Requires refrigeration. Not on the TSCA inventory.1-Butynyl Methyl Ketone

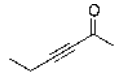
$CH_3CH_2C{\equiv}CCOCH_3$ F.W. 96.13

Assay (GC-FID), 96.5% min
Identification by GC/MS - Conforms

CAS # 1679-36-3 DOT 6.1/3/II

81981	10 G
81982	50 G
81983	250 G
81984	1 KG

Specific Gravity 0.878



5-HEXYNYLAMINE, 97% — ITEM 9722

Not on the TSCA inventory.

$NH_2(CH_2)_4C{\equiv}CH$ F.W. 97.16

Assay (GC-FID), 96.5% min
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid
H2O (KF), 5.0% max
Color - Colorless to yellow

CAS # 15252-45-6 DOT 3/6.1/8/II

17631	5 G

N-(5-HEXYNYL)PHTHALIMIDE, 97% — ITEM 3291

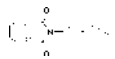
Not on the TSCA inventory

$HC{\equiv}C(CH_2)_4N(CO)_2C_6H_4$ F.W. 227.26

Assay (GC-FID), 96.5% min
Appearance - White to tan solid
Identification by GC/MS - Conforms

CAS # 6097-08-1 DOT 9/III

82851	10 G
82852	50 G



HHSNNA

See 2-Hydroxy-1-(2-Hydroxy-4-Sulfo-1-Naphthylazo-3-Naphthoic Acid)

HOLMIUM, 10,000 ppm ICP STANDARD SOLUTION **ITEM 1747**

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22470 100 ML
22472 500 ML

Specific Gravity 1.030

HOLMIUM, 1,000 ppm ICP STANDARD SOLUTION **ITEM 1746**

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22460 100 ML
22462 500 ML

Specific Gravity 1.030

HOLMIUM ACETATE, 99.9% **ITEM 1250**

$Ho(C_2H_3O_2)_3 \bullet 4H_2O$ F.W. 414.13
Assay (metals basis) 99.9% min

CAS # 25519-09-9 DOT NR

41851 10 G

HOLMIUM ACETYLACETONATE **ITEM 3980**

Not on the TSCA inventory. For R&D use only.

$Ho(C_5H_7O_2)_3 \bullet XH_2O$ F.W. 462.26 (ANHYD.)
Holmium content 35.0 - 36.4%

CAS # 22498-66-4 DOT NR

11391 5 G

HOLMIUM CARBONATE, 99.9% **ITEM 1251**

$Ho_2(CO_3)_3 \bullet 4H_2O$ F.W. 581.96
Assay (metals basis) 99.9% min Holmium content 55.5 - 58.0%

CAS # 5895-51-2 DOT NR

41871 10 G

HOLMIUM CHLORIDE, ANHYDROUS, 99.9% **ITEM 3981**

$HoCl_3$ F.W. 271.29
Assay (metals basis) 99.9% Assay (by EDTA titration) 95%

CAS # 10138-62-2 DOT NR

11411 1 G
11412 5 G

HOLMIUM CHLORIDE, HEXAHYDRATE, 99.99% **ITEM 3982**

$HoCl_3 \bullet 6H_2O$ F.W. 379.38
Assay (metals basis) 99.99% Holmium content (by EDTA) 41.3-45.5%

CAS # 14914-84-2 DOT NR NFPA # 1-0-0

11661 5 G
11662 25 G

HOLMIUM CHLORIDE, HEXAHYDRATE, 99.9% **ITEM 1252**

$HoCl_3 \bullet 6H_2O$ F.W. 379.38
Assay (metals basis) 99.9% min Holmium content (by EDTA) 41.3-45.5%

CAS # 14914-84-2 DOT NR NFPA # 1-0-0

41901 10 G
41902 50 G

HOLMIUM FLUORIDE, 99.9% **ITEM A3576**

HoF_3 F.W. 221.92

CAS # 13760-78-6 DOT NR

41931 5 G

HOLMIUM NITRATE, HEXAHYDRATE, 99.9% **ITEM A3588**

$Ho(NO_3)_3 \bullet 6H_2O$ F.W. 459.05
Assay (metals basis) 99.9% Holmium content (by EDTA) 34.5-37.0%

CAS # 35725-31-6 DOT 5.1/III NFPA # 1-0-1

41951 10 G
41952 50 G

HOLMIUM OXALATE, 99.9% **ITEM 1253**

$Ho_2(C_2O_4)_3 \bullet 10H_2O$ F.W. 774.09
Assay (metals basis) 99.9% min

CAS # 3269-15-6 DOT NR

41981 10 G

H

HOLMIUM OXIDE, 99.99% ITEM 2217

Ho_2O_3 F.W. 377.86

Assay (Metals Basis) 99.99% min

CAS # 12055-62-8 DOT NR

26162 5 G
26161 25 G

HOLMIUM OXIDE, 99.9% ITEM 576

Ho_2O_3 F.W. 377.86

Assay (metals basis) 99.9% min.

CAS # 12055-62-8 DOT NR

42003 5 G
42001 25 G
42002 100 G

HOLMIUM PERCHLORATE, HYDRATED, SOLUTION, REAGENT ITEM 526

Holmium perchlorate is NOT on the TSCA inventory.

$Ho(ClO_4)_3 \bullet 6H_2O$ F.W. 571.38

Holmium content 13.9-15.0%
Chloride 0.01%
Insoluble 0.01%
pH (1:10 dilution w/water) 1-3

CAS # 14017-54-0 DOT NR

42101 20 G
42102 50 G

Specific Gravity 1.570

HOLMIUM PERCHLORATE WAVELENGTH CALIBRATION STANDARD

See In-Spec Wavelength Verification Standard

HOLMIUM PHOSPHATE, 99.9% ITEM A3600

$HoPO_4 \bullet xH_2O$

Assay (Metals Basis) 99.9% min

CAS # 14298-39-6 DOT NR

42121 10 G

HOLMIUM SULFATE, 99.9% ITEM 1254

$Ho_2(SO_4)_3 \bullet xH_2O$

Assay (metals basis) 99.9% min. Assay (as Ho) 41.5-44.0%

CAS # 15622-40-9 DOT NR

42151 10 G

HOLMIUM TRIFLATE

See Holmium Trifluoromethanesulfonate, 98%

HOLMIUM TRIFLUOROMETHANESULFONATE, 98% ITEM 3530

Not on the TSCA inventory

$Ho(CF_3SO_3)_3$ F.W. 612.14

Assay 98%

CAS # 139177-63-2 DOT NR

42171 2 G
42172 10 G

HYDRAZINE MONOHYDRATE, REAGENT ITEM 1160

Hydrazinium hydroxide

$H_2NNH_2 \bullet H_2O$ F.W. 50.06

Assay (RP-Titration) 99 - 102.5%
Residue after evaporation, 0.05% max
Heavy metals, 0.001% max
Color (APHA), 15 max
Sulfate, 0.01% max
Iron, 0.001% max

CAS # 7803-57-8 DOT 8/6.1/II NFPA # 3-2-3

42181 500 ML
42184 2.5 L
42183 20 L

Specific Gravity 1.032

HYDRAZINE, 35% (W/W) AQUEOUS SOLUTION ITEM 3588

H_2NNH_2 F.W. 32.05

Concentration (RP-Titration), 33.0% - 37.0%
Appearance - Clear, colorless liquid

CAS # 302-01-2 DOT 6.1/III NFPA # 3-0-0

42231 100 ML
42232 500 ML
42233 2.5 L
42234 20 L
42235 200 L

Specific Gravity 1.011

HYDRAZINE MONOHYDROCHLORIDE ITEM 3586

$H_2NNH_2 \bullet HCl$ F.W. 68.51

Assay 98%

CAS # 2644-70-4 DOT 8/6.1/II NFPA # 3-0-2

42211 100 G
42212 500 G
42213 2.5 KG

HYDRAZINE DIHYDROCHLORIDE, 97% ITEM 3587

$H_2NNH_2 \bullet 2HCl$ F.W. 104.97

Assay 97%

CAS # 5341-61-7 DOT 8/6.1/III NFPA # 3-0-2

42221 100 G
42222 500 G
42223 2.5 KG

HYDRAZINE SULFATE, REAGENT (ACS) ITEM 929

$H_2NNH_2 \bullet H_2SO_4$ F.W. 130.12

Assay 99.0% min.
Residue after ignition 0.05%
Heavy Metals (Pb) 0.002%
Insoluble 0.005%
Chloride 0.005%
Iron 0.001%

CAS # 10034-93-2 DOT 8/III NFPA # 3-1-2

42201	100 G
42202	500 G
42203	2.5 KG

HYDRIODIC ACID, 55%, REAGENT (ACS) ITEM 623

Specially prepared for methoxyl determination. CONTAINS NO STABILIZER!

HI F.W. 127.92

Assay 55.0-58.0%
Residue after ignition 0.01%
Phosphate 0.001%
Heavy metals (as Pb) 0.001%
Free iodine 0.75%
Chloride and bromide (as Cl) 0.05%
Sulfate 0.005%
Iron 0.001%

CAS # 10034-85-2 DOT 8/II NFPA # 3-0-0

42306	100 ML
42301	500 ML
42303	6 X 500 ML
42302	2.5 L
42304	4 X 2.5 L
42305	6 X 2.5 L

Specific Gravity 1.700

HYDRIODIC ACID, 47%, REAGENT (ACS) ITEM 2399

(with Stabilizer)

HI F.W. 127.91

Assay (HI) 47.0% min.
Sulfate (SO4) 0.005%
Stabilizer (H3PO2) 1.5%
Chloride and bromide (as Cl) 0.05%
Iron 0.001%
Heavy Metals (as Pb) 0.001%

CAS # 10034-85-2 DOT 8/II NFPA # 3-0-0

88201	100 ML
88202	500 ML
88204	6 X 500 ML
88203	2.5 L
88205	4 X 2.5 L
88206	6 X 2.5 L

Specific Gravity 1.500

HYDROBROMIC ACID, 48%, REAGENT (ACS) ITEM 930

HBr F.W. 80.91

Assay 47.0-49.0% HBr
Chloride 0.05%
Phosphate 0.001%
Selenium 0.01 ppm
Iron 0.0001%
Residue after ignition 0.002%
Iodide 0.003%
Sulfate and Sulfite (as SO4) 0.003%
Heavy Metals (Pb) 0.0005%

CAS # 10035-10-6 DOT 8/II

42405	100 ML
42401	500 ML
42403	6 X 500 ML
42402	2.5 L
42404	4 X 2.5 L
42406	6 X 2.5 L
42408	189 L

Specific Gravity 1.500

HYDROCHLORIC ACID, 30-35%, VERITAS® DOUBLE DISTILLED ITEM 2185

Ultra trace metal grade. Low PPT level impurities.Bottled in leached FEP or PFA bottles to reduce bottle impurities.

HCl F.W. 36.46

Assay 30-35%

Ag 10 ppt
Au 10 ppt
Be 20 ppt
Cd 10 ppt
Cr 10 ppt
Dy 10 ppt
Fe 100 ppt
Hg 50 ppt
K 100 ppt
Lu 10 ppt
Mg 100 ppt
Na 1000 ppt
Pb 10 ppt
Pt 10 ppt
Sb 10 ppt
Sm 10 ppt
Tb 10 ppt
U 10 ppt
Y 10 ppt
Zr 20 ppt
Al 200 ppt
B 200 ppt
Bi 20 ppt
Ce 10 ppt
Cs 10 ppt
Er 10 ppt
Ga 10 ppt
Ho 10 ppt
La 10 ppt
Mg 100 ppt
Mn 20 ppt
Nd 10 ppt
Pd 10 ppt
Rb 10 ppt
Sc 10 ppt
Sr 20 ppt
Te 10 ppt
V 20 ppt
Yb 10 ppt
As 10 ppt
Ba 50 ppt
Ca 500 ppt
Co 20 ppt
Cu 20 ppt
Eu 10 ppt
Gd 10 ppt
In 10 ppt
Li 20 ppt
Mn 20 ppt
Mo 10 ppt
Ni 20 ppt
Pr 10 ppt
Rh 10 ppt
Se report
Sn 10 ppt
Ti 10 ppt
W 20 ppt
Zn 100 ppt

CAS # 7647-01-0 DOT 8/II

T **43550**	250 ML
T **43551**	500 ML
T **43552**	2 L

T = FEP Bottle

Specific Gravity 1.160

H

HYDROCHLORIC ACID, 30-38%, ENVIRONMENTAL GRADE — ITEM 2592

Trace metal/ICP grade packed in plastic resin bottles to eliminate common metals leached from glass.

HCl F.W. 36.46

Assay 30-38%
Sulfate 0.00001%
Ammonium 0.00002%
Residue after ignition 0.0001%
Sulfite 0.00001%

Ag 1 ppb	Al 1 ppb	As 1 ppb
Au 1 ppb	B 1 ppb	Ba 1 ppb
Be 1 ppb	Bi 1 ppb	Ca 1 ppb
Cd 1 ppb	Ce 1 ppb	Co 1 ppb
Cr 1 ppb	Cs 1 ppb	Cu 1 ppb
Dy 1 ppb	Er 1 ppb	Eu 1 ppb
Fe 1 ppb	Ga 1 ppb	Ge 1 ppb
Gd 1 ppb	Hg 1 ppb	Ho 1 ppb
In 1 ppb	Ir 1 ppb	K 1 ppb
La 1 ppb	Li 1 ppb	Lu 1 ppb
Mg 1 ppb	Mn 1 ppb	Mo 1 ppb
Na 1 ppb	Nd 1 ppb	Ni 1 ppb
Os 1 ppb	Pd 1 ppb	Pb 1 ppb
Pr 1 ppb	Pt 1 ppb	Rb 1 ppb
Rh 1 ppb	Ru 1 ppb	Sb 1 ppb
Sc 1 ppb	Se 1 ppb	Si 10 ppb
Sr 1 ppb	Tb 1 ppb	Te 1 ppb
Ti 1 ppb	U 1 ppb	V 1 ppb
W 1 ppb	Y 1 ppb	Yb 1 ppb
Zn 1 ppb	Zr 1 ppb	

CAS # 7647-01-0 DOT 8/II NFPA # 3-0-2

43571	500 ML
43572	6 X 500 ML
43573	2.2 L PPQ
43574	4 X 2.2 L
43575	6 X 2 L

Specific Gravity 1.160

HYDROCHLORIC ACID, 6 M, ENVIRONMENTAL GRADE — ITEM 2542

Trace metal/ICP grade packed in plastic resin bottles to eliminate common metals leached from glass.

HCl F.W. 36.46

Assay 20.0-22.0%
Sulfate 0.00001%
Ammonium 0.00002%
Residue after ignition 0.0001%
Sulfite 0.00001%
Specific gravity 1.10-1.11

Ag 1 ppb	Al 1 ppb	As 1 ppb
Au 1 ppb	Ba 1 ppb	Be 1 ppb
Bi 1 ppb	Ca 10 ppb	Cd 1 ppb
Ce 1 ppb	Co 1 ppb	Cr 1 ppb
Cs 1 ppb	Cu 1 ppb	Dy 1 ppb
Er 1 ppb	Eu 1 ppb	Fe 2 ppb
Ga 1 ppb	Ge 1 ppb	Hg 1 ppb
Ho 1 ppb	In 1 ppb	Ir 1 ppb
K 5 ppb	La 1 ppb	Li 1 ppb
Lu 1 ppb	Mg 2 ppb	Mn 1 ppb
Mo 1 ppb	Na 10 ppb	Nd 1 ppb
Ni 1 ppb	Os 1 ppb	Pb 1 ppb
Pd 1 ppb	Pr 1 ppb	Pt 1 ppb
Rb 1 ppb	Rh 1 ppb	Sc 1 ppb
Se 1 ppb	Si 5 ppb	Sm 1 ppb
Sn 1 ppb	Sr 1 ppb	Tb 1 ppb
Te 1 ppb	Ti 1 ppb	U 1 ppb
V 1 ppb	W 1 ppb	Y 1 ppb
Yb 1 ppb	Zn 5 ppb	Zr 1 ppb

CAS # 7647-01-0 DOT 8/II NFPA # 3-0-2

43581	500 ML
43582	6 X 500 ML
43585	2.2 L PPQ
43586	4 X 2.2 L

Specific Gravity 1.100

HYDROCHLORIC ACID, 32-38%, VERITAS® REDISTILLED — ITEM 2180

Trace metal grade. Low ppb metal impurities. Note: Results reported at time of bottling in glass. The levels of Al, B, Ca, K, Mg, Mn, Na, and Si will increase over time.

HCl F.W. 36.46

Assay 32-38%
Sulfate 0.00001%
Ammonium 0.00002%
Boron 0.0000002%
Residue after ignition 0.0001%
Sulfite 0.00001%
Arsenic 0.0000001%
Silicon 0.000001%

Ag 5 ppb	Al 1 ppb	Au 1 ppb
Ba 1 ppb	Be 1 ppb	Bi 1 ppb
Ca 10 ppb	Cd 1 ppb	Ce 1 ppb
Co 1 ppb	Cr 1 ppb	Cs 1 ppb
Cu 1 ppb	Dy 1 ppb	Er 1 ppb
Eu 1 ppb	Fe 5 ppb	Ga 1 ppb
Gd 1 ppb	Ge 1 ppb	Hf 1 ppb
Hg 1 ppb	Ho 1 ppb	In 1 ppb
Ir 1 ppb	K 5 ppb	La 1 ppb
Li 2 ppb	Lu 1 ppb	Mg 2 ppb
Mn 1 ppb	Mo 1 ppb	Na 5 ppb
Nd 1 ppb	Ni 1 ppb	Os 1 ppb
Pb 3 ppb	Pd 1 ppb	Pr 1 ppb
Pt 1 ppb	Rb 1 ppb	Rh 1 ppb
Ru 1 ppb	Sb 1 ppb	Sc 1 ppb
Se 1 ppb	Sm 1 ppb	Sn 1 ppb
Sr 1 ppb	Tb 1 ppb	Te 1 ppb
Th 1 ppb	Ti 1 ppb	U 1 ppb
V 1 ppb	W 1 ppb	Y 1 ppb
Yb 1 ppb	Zn 2 ppb	Zr 1 ppb

CAS # 7647-01-0 DOT 8/II NFPA # 3-0-2

43531	500 ML
43533	6 X 500 ML
43532	2.5 L
43535	6 X 2.5 L
43538	2.5 L PVC
43537	6X2.5L PVC

Specific Gravity 1.160

HYDROCHLORIC ACID, 6 MOLAR, VERITAS® REDISTILLED — ITEM 504

Trace metal grade. Low ppb metal impurities. Note: Results reported at time of bottling in glass. The levels of Al, B, Ca, K, Mg, Mn, Na, and Si will increase over time.

HCl F.W. 36.46

Assay 20.0-22.0%	Residue after ignition 0.0001%
Sulfate 0.00001%	Sulfite 0.00001%
Ammonium 0.00002%	Arsenic 0.0000001%
Boron 0.000005%	Heavy metals 0.00001%
Iron 0.000001%	Specific Gravity 1.10-1.11

Ag 1 ppb	Al 20 ppb	Au 1 ppb
Ba 1 ppb	Be 1 ppb	Bi 1 ppb
Ca report	Cd 1 ppb	Ce 1 ppb
Co 1 ppb	Cr 1 ppb	Cs 1 ppb
Cu 1 ppb	Dy 1 ppb	Er 1 ppb
Eu 1 ppb	Ga 1 ppb	Gd 1 ppb
Ge 1 ppb	Hf 1 ppb	Hg 1 ppb
Ho 1 ppb	In 1 ppb	Ir 1 ppb
K Report	La 1 ppb	Li 1 ppb
Lu 1 ppb	Mg 2 ppb	Mn 2 ppb
Mo 1 ppb	Na 40 ppb	Nd 1 ppb
Ni 1 ppb	Os 1 ppb	Pb 1 ppb
Pd 1 ppb	Pr 1 ppb	Pt 1 ppb
Rb 1 ppb	Rh 1 ppb	Ru 1 ppb
Sc 1 ppb	Sb 1 ppb	Se 1 ppb
Si Report	Sm 1 ppb	Sn 1 ppb
Sr 1 ppb	Tb 1 ppb	Te 1 ppb
Th 1 ppb	Ti 1 ppb	U 1 ppb
V 1 ppb	W 1 ppb	Y 1 ppb
Yb 1 ppb	Zn Report	Zr 1 ppb

CAS # 7647-01-0 DOT 8/II NFPA # 3-0-2

43601	500 ML
43603	6 X 500 ML
43602	2.5 L
43605	6 X 2.5 L
43608	2.5 L PVC
43609	6X2.5L PVC

Specific Gravity 1.100

HYDROCHLORIC ACID, 37%, SUPERIOR REAGENT (ACS) — ITEM 2586

Metals analysis reported on certificate in ppm.

HCl F.W. 36.46

Assay 36.5-38.0%	Appearance - Pass test
Color (APHA) 10	Residue after ignition 0.0005%
Bromide 0.005%	Sulfate 0.0001%
Sulfite 0.0001%	Extractable organic substances - Pass test ~ 5 ppm
Free chlorine 0.0001%	Ammonium 0.0003%
Arsenic 0.000001%	Heavy Metals (as Pb) 0.0001%

Ag 0.1 ppm	Al 0.1 ppm	Au 0.1 ppm
Ba 0.1 ppm	Ca 0.3 ppm	Cd 0.1 ppm
Cr 0.1 ppm	Cu 0.1 ppm	Fe 0.1 ppm
Hg 0.1 ppm	K 0.3 ppm	Li 0.3 ppm
Mg 0.3 ppm	Mn 0.1 ppm	Mo 0.1 ppm
Na 0.3 ppm	Ni 0.1 ppm	Pb 0.1 ppm
Sr 0.1 ppm	Zn 0.1 ppm	

CAS # 7647-01-0 DOT 8/II NFPA # 3-0-2

43491	500 ML
43492	6 X 500 ML
43493	2.5 L
43494	4 X 2.5 L
43495	6 X 2.5 L
43496	2.5 L PVC
43497	4X2.5L PVC
43492	6X2.5L PVC

Specific Gravity 1.180

HYDROCHLORIC ACID, 37%, REAGENT (ACS) — ITEM 625

HCl F.W. 36.46

Assay (as HCl) 36.5-38.0%	Appearance - Pass test
Color (APHA) 10 max	Residue after ignition 0.0005%
Bromide 0.005%	Sulfate 0.0001%
Sulfite 0.0001%	Extractable organic substances - Pass test ~5 ppm
Free chlorine 0.0001%	Ammonium 0.0003%
Arsenic 0.000001%	Heavy Metals (Pb) 0.0001%
Iron 0.00002%	

CAS # 7647-01-0 DOT 8/II NFPA # 3-0-2

43501	500 ML
43503	6 X 500 ML
43502	2.5 L
43504	4 X 2.5 L
43505	6 X 2.5 L
43509	2.5 L PVC
43510	4X2.5L PVC
43503	6X2.5L PVC

Specific Gravity 1.180

HYDROCHLORIC ACID, SOLUTION 6.0 N — ITEM 2171

6.0 mol/L

HCl F.W. 36.46

Normality 6.00 ± 0.01

CAS # 7647-01-0 DOT 8/II

43521	4 L
43522	20 L

Specific Gravity 1.100

HYDROCHLORIC ACID, SOLUTION, 2 N — ITEM 1572

2.0 mol/L

HCl F.W. 36.46

Exact normality 2.00 ± 0.01

CAS # 7647-01-0 DOT 8/III NFPA # 2-0-0

43811	4 L
43812	4 X 4 L

Specific Gravity 1.030

HYDROCHLORIC ACID, SOLUTION, 1.0 N ITEM 382

1.0 mol/L

HCl F.W. 36.46

Iron and copper free Concentration 1.000 ± 0.001 N

CAS # 7647-01-0 DOT 8/III NFPA # 2-0-0

43805	1 L
43806	6 X 1 L
43802	4 L
43804	4 X 4 L
43803	20 L

Specific Gravity 1.017

HYDROCHLORIC ACID, SOLUTION, 0.5 N ITEM 1162

0.5 mol/L

HCl F.W. 36.46

Exact Normality 0.500 ± 0.001 N

CAS # 7647-01-0 DOT 8/III NFPA # 2-0-0

43913	1 L
43914	6 X 1 L
43911	4 L
43912	4 X 4 L
43915	20 L

Specific Gravity 1.010

HYDROCHLORIC ACID, SOLUTION, 0.2 N ITEM 2330

0.2 mol/L

HCl F.W. 36.46

Exact normality 0.2000±0.0004

CAS # 7647-01-0 DOT NR

43841	4 L

Specific Gravity 1.000

HYDROCHLORIC ACID, SOLUTION, 0.1 N ITEM 722

HCl F.W. 36.46

Exact normality is 0.1000 ± 0.0002

CAS # 7647-01-0 DOT NR NFPA # 1-0-0

43904	1 L
43905	6 X 1 L
43901	4 L
43902	4 X 4 L
43903	20 L

Specific Gravity 1.000

HYDROCHLORIC ACID, SOLUTION, 0.05 N ITEM 2071

0.05 mol/L

HCl F.W. 36.46

Exact normality 0.0500N ± 0.0002

CAS # 7647-01-0 DOT NR

24701	4 L

Specific Gravity 1.000

HYDROCHLORIC ACID, SOLUTION, 0.025 N ITEM 9318

HCl F.W. 36.46

Concentration 0.0250 ± 0.0005 N

CAS # 7647-01-0 DOT NR NFPA # 1-0-0

19541	4 L
19542	20 L

Specific Gravity 1.000

HYDROCHLORIC ACID, SOLUTION, 0.02 N ITEM 2535

HCl F.W. 36.46

Concentration 0.0200 ± 0.0005 N

CAS # 7647-01-0 DOT NR

43881	4 L
43882	4 X 4 L
43883	20 L

Specific Gravity 1.000

HYDROCHLORIC ACID, SOLUTION, 0.01 N ITEM 1161

0.01 mol/L

HCl F.W. 36.46

Exact normality is 0.0100 ± 0.0002

CAS # 7647-01-0 DOT NR NFPA # 2-0-2

43891	4 L
43892	4 X 4 L

Specific Gravity 1.000

HYDROCHLORIC ACID, SOLUTION, 0.1 N, in ISOPROPYL ALCOHOL ITEM 3578

0.1 mol/L

HCl F.W. 36.46

Concentration 0.100 ± 0.001 N

CAS # 7647-01-0 DOT 3/II NFPA # 1-3-0

43871	1 L
43872	4 L

Specific Gravity 0.790

HYDROCHLORIC ACID, SOLUTION, 10% v/v — ITEM 2305

1 + 9 dilution of HCl

HCl F.W. 36.46

Assay 9.0-11.0% (V/V)

CAS # 7647-01-0 DOT 8/III NFPA # 2-0-0

43511 4 L

Specific Gravity 1.020

HYDROFLUORIC ACID, VERITAS® DOUBLE DISTILLED — ITEM 1229

HF F.W. 20.01

Assay 46.0-51.0%
Residue after ignition 0.00001%
Phosphate 0.00001%
Heavy Metals 0.000001%
Fluosilicic Acid (H2SiF6) 0.005%
Chloride 0.0005%
Copper 0.0000001%
Iron 0.000001%

Al 1 ppb	Sb 1 ppb	As 1 ppb
Ba 1 ppb	Be 1 ppb	Bi 1 ppb
B 1 ppb	Cd 1 ppb	Ca 1 ppb
Cr 1 ppb	Co 1 ppb	Cu 1 ppb
Ga 1 ppb	Ge 1 ppb	Au 1 ppb
Fe 1 ppb	Pb 1 ppb	Li 1 ppb
Mg 1 ppb	Mn 1 ppb	Mo 1 ppb
Ni 1 ppb	Nb 1 ppb	K 1 ppb
Ag 1 ppb	Na 1 ppb	Sr 1 ppb
Ta 1 ppb	Tl 1 ppb	Sn 1 ppb
Ti 1 ppb	V 1 ppb	Zn 1 ppb
Zr 1 ppb		

CAS # 7664-39-3 DOT 8/6/II NFPA # 4-0-0

T **43941** 250 ML
T **43942** 500 ML
T **43943** 1 L
T = FEP Bottle

Specific Gravity 1.160

HYDROFLUORIC ACID, 48%, REAGENT (ACS) — ITEM 931

HF F.W. 20.01

Assay 48.0-51.0%
Residue after ignition 0.0005%
Phosphate 0.0001%
Arsenic 0.000005%
Heavy metals (Pb) 0.00005%
Fluosilicic acid (H2SiF6) 0.01%
Chloride 0.0005%
Sulfate and Sulfite (as SO4) 0.0005%
Copper 0.00001%
Iron 0.0001%

CAS # 7664-39-3 DOT 8/6/II NFPA # 4-0-0

43933 500 ML
43934 6 X 500 ML

Specific Gravity 1.160

HYDROGENATION CATALYST

See Royer Palladium Catalyst Beads

HYDROGEN CHLORIDE, 5-6 N, in ISOPROPYL ALCOHOL — ITEM 2474

5-6 mol/L. Hydrogen chloride is readily desorbed from the solution, so concentration may drop over time.

HCl F.W. 36.46

Normality (Acid-base titration), 5.0-6.0 N
Density (g/ml) at 25 C, Report
H2O (KF), 1.5% max
Color(APHA), 100 APHA max.

CAS # 7647-01-0 DOT 3/8/II

43751 1 L
43752 6 X 1 L
43753 4 L
43754 4 X 4 L
43755 20 L
43757 50 L
43756 200 L

Specific Gravity 0.900

HYDROGEN CHLORIDE, 5N, in METHYL ALCOHOL — ITEM 5618

4.5-5.5 Mol/L. Hydrogen chloride is readily desorbed from the solution, so concentration may drop over time.

HCl F.W. 36.46

Normality (Acid-base titration), 4.5 - 5.5 N
Density (g/ml), Report
H2O (KF), 1.5% max

CAS # 7647-01-0 DOT 3/8/II

20461 4 L
20462 20 L
20463 50 L
20464 200 L

Specific Gravity 0.900

HYDROGEN CHLORIDE, 4M IN DIOXANE — ITEM 5586

HCl F.W. 36.46

Concentration 3.8-4.2 M

CAS # 7647-01-0 DOT 3/8/II

20581 1 L
20582 4 L
20583 4 X 4 L
20584 20 L
20585 200 L

Specific Gravity 1.050

H

HYDROGEN CHLORIDE, 2.5M in DENATURED ETHANOL — ITEM 5653

Hydrogen chloride is readily desorbed from solution, so concentration may drop over time.

HCl F.W. 36.46

Concentration, 2.5-2.8 M Density(g/ml), Report

CAS # 7647-01-0 DOT 3/8/II

21042	4 L
21043	20 L
21041	50 L
21044	200 L

Specific Gravity 0.835

HYDROGEN HEXAFLUOROPHOSPHATE

See Hexafluorophosphoric Acid

HYDROGEN PEROXIDE, 50% SOLUTION — ITEM 3790

Retest concentration regularly.

H_2O_2 F.W. 34.02

Concentration 45-55%

CAS # 7722-84-1 DOT 5.1/8/II

43991	500 ML
43993	4 L
43994	20 L

Specific Gravity 1.180

HYDROGEN PEROXIDE, 30%, VERITAS® LOW TRACE METALS — ITEM 3984

Trace metal grade. Low PPB level impurities.

H_2O_2 F.W. 34.02

Assay 30.0-32.0%
Free acid 0.6 ueq/g
Chloride 0.03 ppm
Sulfate (SO4) 0.1 ppm
Color (APHA) 10 max.
Total Organic Carbon 20 ppm
Phosphate (PO4) 0.1 ppm

Ag 0.1 ppb	Al 0.1 ppb	As 0.1 ppb
Au 0.1 ppb	B 0.1 ppb	Ba 0.1 ppb
Be 0.1 ppb	Bi 0.1 ppb	Ca 0.1 ppb
Cd 0.1 ppb	Co 0.1 ppb	Cr 0.1 ppb
Cu 0.1 ppb	Ga 0.1 ppb	Ge 0.1 ppb
Fe 0.1 ppb	K 0.1 ppb	Li 0.1 ppb
Mg 0.1 ppb	Mn 0.1 ppb	Mo 0.1 ppb
Na 0.1 ppb	Nb 0.1 ppb	Ni 0.1 ppb
Pb 0.1 ppb	Sb 0.1 ppb	Sn 0.1 ppb
Sr 0.1 ppb	Ta 0.1 ppb	Ti 0.1 ppb
Tl 0.1 ppb	V 0.1 ppb	Zn 0.1 ppb
Zr 0.1 ppb		

CAS # 7722-84-1 DOT 5.1/8/II NFPA # 2-0-3

11781	100 ML
11782	500 ML
11783	6 X 500 ML
11784	1 GALLON
11785	4 X 1 GAL

Specific Gravity 1.100

HYDROGEN PEROXIDE, 99.999%, 30-32% IN WATER — ITEM 2448

Stabilized

H_2O_2 F.W. 34.02

Assay (metals basis) 99.999% min. Concentration 30-32%

CAS # 7722-84-1 DOT 5.1/8/II NFPA # 2-0-3

43961	1 L
43962	4 L

Specific Gravity 1.100

HYDROGEN PEROXIDE, 30%, REAGENT (ACS) — ITEM 932

Stabilized with less than 1ppm of tin.

H_2O_2 F.W. 34.02

Assay 29.0-32.0%
Residue after evaporation 0.002%
Chloride 0.0002%
Phosphate 0.0002%
Ammonium 0.0005%
Iron 0.00005%
Color (APHA) 10 max
Titrable acid 0.0006 meq/g
Nitrate 0.0002%
Sulfate 0.0005%
Heavy metals (as Pb) 0.0001%

CAS # 7722-84-1 DOT 5.1/8/II NFPA # 2-0-3

43975	100 ML
43971	500 ML
43973	6 X 500 ML
43972	4 L
43974	4 X 4 L
43976	20 L

Specific Gravity 1.100

HYDROGEN PEROXIDE SOLUTION, 3% — ITEM 9321

H_2O_2 F.W. 34.02

Concentration 2.0-4.0%

CAS # 7722-84-1 DOT NR NFPA # 1-0-1

43982	500 ML
43981	4 L

Specific Gravity 1.000

HYDROGEN TETRACHLOROAURATE, 99.999% — ITEM 5083

Gold Trichloride Acid; Chloroauric Acid

$HAuCl_4 \bullet xH_2O$ F.W. 339.80 + XH2O

Assay (metals basis) 99.999% min.

CAS # 27988-77-8 DOT 8/III

87791	250 MG
87792	1 G
87793	5 G

HYDROGEN TETRACHLOROAURATE, TRIHYDRATE, REAGENT (ACS) ITEM 2398

Gold Chloride; Tetrachloroauric (III) Acid, Trihydrate

$HAuCl_4 \bullet 3H_2O$ F.W. 393.83

Assay 49.0% min (Au) Insoluble in ether 0.1%
Alkalies and other metals (as sulfates) 0.2%

CAS # 16961-25-4 DOT 8/III

88191	1 G
88192	5 G

HYDROQUINONE, 99% ITEM 552

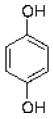
$C_6H_4(OH)_2$ F.W. 110.11

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms
Color - White Form - Crystal / Powder

CAS # 123-31-9 DOT NR NFPA # 2-1-1

44001	500 G
44002	2.5 KG
44003	20 KG
44004	50 KG

Specific Gravity 1.450



HYDROXYAPATITE

See Calcium Phosphate, Hydroxide

HYDROXYBENZENE

See Phenol

2-HYDROXYBENZOIC ACID

See Salicylic Acid

HYDROXYBENZOIC ACID, SODIUM SALT

See Sodium Salicylate

HYDROXYETHYLETHYLENEDIAMINETRIACETIC ACID, TRISODIUM SALT, REAGENT ITEM 771

NaHEDTA

$(NaO_2CCH_2)_2NC_2H_4N(CH_2CH_2OH)CH_2CO_2Na$ F.W. 344.21

Assay (excluding water) 98% Water (KF titration) typically 10-12%
Insoluble 0.01%

CAS # 139-89-9 DOT NR

44241	500 G
44242	2.5 KG
44243	10 KG
44244	50 KG

2-HYDROXYETHYLPHTHALIMIDE, 99% ITEM 5528

$C_{10}H_9NO_3$ F.W. 191.18

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms
H2O (KF), 0.5% max Appearance - White to tan crystal/solid

CAS # 3891-07-4 DOT NR

17291	100 G
17292	500 G
17293	2.5 KG

2-HYDROXY-1-(2-HYDROXY-4-SULFO-1-NAPHTHYLAZO-3-NAPHTHOIC ACID) ITEM 508

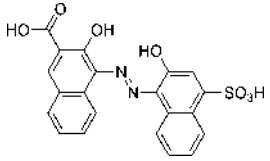
HHSNNA. Cal Red. Indicator for calcium in the presence of magnesium.

$C_{10}H_5(OH)(SO_3H)N{=}NC_{10}H_5(OH)(COOH)$ F.W. 438.42

Suitability as indicator Pass Test

CAS # 3737-95-9 DOT NR

44402	5 G
44403	25 G



HYDROXYLAMINE HYDROCHLORIDE

See Hydroxylammonium Chloride

HYDROXYLAMINE SULFATE

See Hydroxylammonium Sulfate

HYDROXYLAMINE SULFATE-SODIUM CHLORIDE SOLUTION

See Sodium Chloride-Hydroxylamine Sulfate Solution

HYDROXYLAMMONIUM CHLORIDE, 99.999+% — ITEM 3772

$NH_2OH•HCl$ F.W. 69.50

Assay (metals basis) 99.999+%

CAS # 5470-11-1 DOT 8/6.1/III NFPA # 3-2-3

Please Inquire For Sizes

HYDROXYLAMMONIUM CHLORIDE, REAGENT (ACS), LOW MERCURY — ITEM 1578

Reagent for reductimetry.

$NH_2OH•HCl$ F.W. 69.50

Assay 96% min.
Residue after ignition 0.05%
Ammonium-pass test
Heavy Metals (by ICP-OES) 0.0005%
Mercury 0.000005%
Clarity of alcohol solution-pass test
Titrable free acid 0.25 meq/g
Sulfate 0.005%
Iron 0.0005%

CAS # 5470-11-1 DOT 8/6.1/III NFPA # 3-2-3

44651	100 G
44652	500 G
44653	2.5 KG
44654	10 KG

HYDROXYLAMMONIUM CHLORIDE, REAGENT (ACS) — ITEM 143

Reagent for reductimetry.

$NH_2OH•HCl$ F.W. 69.50

Assay 96.0% min.
Residue after ignition 0.05%
Ammonium - Pass test
Heavy Metals (by ICP-OES) 0.0005%
Clarity of alcohol solution-pass test
Titrable free acid 0.25 meq/g
Sulfur compounds (as SO4) 0.005%
Iron 0.0005%

CAS # 5470-11-1 DOT 8/6.1/III NFPA # 3-1-1

44601	100 G
44602	500 G
44603	2.5 KG
44604	10 KG
44605	50 KG

HYDROXYLAMMONIUM CHLORIDE SOLUTION, 50% AQUEOUS W/V — ITEM 2072

APHA for mercury

$NH_2OH•HCl$ F.W. 69.50

Suitability for mercury determination Pass Test

CAS # 5470-11-1 DOT 8/III NFPA # 2-0-0

24711	500 ML

HYDROXYLAMMONIUM CHLORIDE SOLUTION, 20% AQUEOUS — ITEM 1543

Iron and copper free

$NH_2OH•HCl$ F.W. 69.50

Iron - Pass Test
Copper - Pass Test

CAS # 5470-11-1 DOT 8/III NFPA # 2-0-0

44641	500 ML
44642	2.5 L
44643	4 L

HYDROXYLAMMONIUM CHLORIDE SOLUTION, 10% AQUEOUS — ITEM 1083

Iron and copper free

$NH_2OH•HCl$ F.W. 69.50

Concentration 10 ± 1%
Copper - Pass Test
Iron - Pass Test

CAS # 5470-11-1 DOT 8/III NFPA # 2-0-0

44621	500 ML
44622	2.5 L
44623	4 L

Specific Gravity 1.040

HYDROXYLAMMONIUM SULFATE, 99.999% — ITEM 3773

$(NH_2OH)_2•H_2SO_4$ F.W. 164.15

Assay (metals basis) 99.999%

CAS # 10039-54-0 DOT 8/III NFPA # 2-1-2

11791	25 G

HYDROXYLAMMONIUM SULFATE, REAGENT (ACS) — ITEM 5485

Reagent for reductimetry.

$(NH_2OH)_2•H_2SO_4$ F.W. 164.15

Assay 99.0% min.
Chloride 0.001%
Copper 5 ppm
Residue after ignition 0.05%
Heavy metals (as Pb) 5 ppm
Iron 5 ppm

CAS # 10039-54-0 DOT 8/III NFPA # 2-1-2

16691	100 G
16692	500 G
16693	2.5 KG

HYDROXYLAMMONIUM SULFATE, REAGENT — ITEM 144

Reagent for reductimetry.

$(NH_2OH)_2 \bullet H_2SO_4$ F.W. 164.15

Assay 96.0% min
Residue after ignition 0.05%
Ammonium 0.1%
Heavy metals (as Pb) 0.001%
Insoluble - Pass Test
Acidity - Pass Test
Chloride 0.01%
Iron 0.001%

CAS # 10039-54-0 DOT 8/III NFPA # 2-1-2

44701	100 G
44702	500 G
44703	2.5 KG
44704	10 KG
44705	50 KG

HYDROXYLAMMONIUM SULFATE, TECHNICAL — ITEM 1852

F.W. 164.15

Assay 96.0% min
Residue after ignition 0.05%
Iron 0.005%
Insoluble matter 0.02%
Heavy metals 0.001%

CAS # 10039-54-0 DOT 8/III

44711	50 LB

7-HYDROXY-4-METHYLCOUMARIN — ITEM 1255

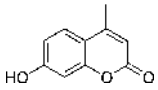
4-Methylumbelliferone. Standard for fluorometric determination of enzyme activity.

$C_{10}H_8O_3$ F.W. 176.17

Assay 97% min.

CAS # 90-33-5 DOT NR

44753	25 G
44751	100 G
44752	500 G



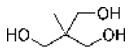
1,1,1-tris-(HYDROXYMETHYL)ETHANE, 94% — ITEM 2777

$CH_3C(CH_2OH)_3$ F.W. 120.15

Assay (GC-FID), 93.0% min
Identification by GC/MS - Conforms

CAS # 77-85-0 DOT NR NFPA # 1-0-0

75871	100 G
75872	500 G
75873	2 KG



2-HYDROXYMETHYL-2-METHYL-1,3-PROPANEDIOL

See 1,1,1-Tris-(Hydroxymethyl)ethane, 94%

4-HYDROXY-4-METHYL-2-PENTANONE, 99% — ITEM 2745

Diacetone alcohol

$(CH_3)_2C(OH)CH_2COCH_3$ F.W. 116.16

Assay (GC-FID), 98.5% min
Color - Colorless
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 123-42-2 DOT 3/III NFPA # 1-2-0

44781	100 ML
44782	500 ML
44783	4 L

Specific Gravity 0.931

1-(1-HYDROXY-4-METHYL-2-PHENYLAZO)-2-NAPHTHOL-4-SULFONIC ACID

See Calmagite

HYDROXY NAPHTHOL BLUE, REAGENT (ACS) — ITEM 690

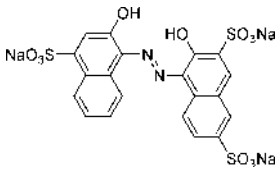
1-(2-Naphtholazo-3,6-disulfonic acid)-2-naphthol-4-sulfonic acid disodium salt. Deposited on crystals of sodium chloride.

$C_{20}H_{12}N_2O_{11}S_3Na_2$ F.W. 598.50

Suitability for calcium determination Pass Test

CAS # 165660-27-5 DOT NR NFPA # 1-0-0

44801	25 G
44802	100 G
44803	500 G



3-HYDROXY-4-NITROSO-2,7-NAPHTHALENEDISULFONIC ACID, DISODIUM SALT

See Nitroso R Salt

3-HYDROXYPHENYLACETYLENE

See 3-Ethynylphenol, 95%

H

4-HYDROXYPHENYLACETYLENE

See 4-Ethynylphenol

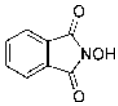
N-HYDROXYPHTHALIMIDE ITEM 2746

$C_8H_5NO_3$ F.W. 163.13

Assay 97% min.

CAS # 524-38-9 DOT NR

Please Inquire For Sizes



2-HYDROXY-1,2,3-PROPANETRICARBOXYLIC ACID

See Citric Acid, Anhydrous

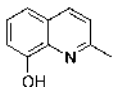
8-HYDROXYQUINALDINE ITEM 282

$C_9H_5N(OH)CH_3$ F.W. 159.18

M.p. 69-71 C Assay 98% min

CAS # 826-81-3 DOT NR NFPA # 1-1-0

44903 100 g



8-HYDROXYQUINOLINE, 99%, REAGENT (ACS) ITEM 142

8-Quinolinol. Organic precipitant.

C_9H_6NOH F.W. 145.15

Assay (GC-FID), 98.5% min
Residue after ignition 0.05%
Insoluble in alcohol 0.05%
Sulfate 0.02%
Melting point 72.5 - 74.0 C
Suitability for magnesium determination -Pass Test

CAS # 148-24-3 DOT NR NFPA # 1-1-0

45006 25 G
45001 100 G
45002 500 G
45003 2.5 KG
45004 10 KG

8-HYDROXYQUINOLINE SULFATE, 97% ITEM 1287

$C_9H_7NO \bullet 1/2H_2SO_4 \bullet 1/2H_2O$ F.W. 203.21

Assay (Acid/base titration), 96.5% - 103.5%
Appearance - Yellow powder / solid
H2O (KF), 5.0% max

CAS # 134-31-6 DOT NR NFPA # 1-1-0

45011 100 G
45012 500 G
45014 10 KG

14-HYDROXY-10,12-TETRADECADIYNOIC ACID, 97% ITEM 3205

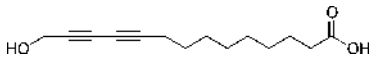
Requires refrigeration. Not on the TSCA inventory.

$HOCH_2C{\equiv}CC{\equiv}C(CH_2)_8COOH$ F.W. 236.31

Assay (GC-FID by Esterification), 96.5% min
Appearance - White to purple powder/crystal
Identification by GC/MS - Conforms

CAS # 86840-72-4 DOT 9/III

82001 1 G
82002 5 G



HYPOPHOSPHOROUS ACID SOLUTION, 50% AQUEOUS ITEM 933

Reducing agent

H_3PO_2 F.W. 66.00

Assay 48.0-51.0%

CAS # 6303-21-5 DOT 8/II NFPA # 2-1-3

45105 100 G
45101 500 G
45102 2.5 KG
45103 10 KG

Specific Gravity 1.274

ICP PRIORITY POLLUTANT SET

See Priority Pollutant Set

IMIDAZOLE, REAGENT (ACS) ITEM 1973

White crystals

$C_3H_4N_2$ F.W. 68.08

Assay 99% min.
Residue after ignition 0.1%
Water 0.2% max.
pH of 5% solution 9.5-11.0
Iron 0.001%

CAS # 288-32-4 DOT 8/III NFPA # 3-1-0

44951 100 G
44952 500 G
44953 2.5 KG

1,2,3-INDANETRIONE MONOHYDRATE

See Ninhydrin

INDICATOR STICKS, pH 0-14 — ITEM 2658

Box of 100 sticks, 6 x 85 mm with color scale. Graduated in full units from pH 0 - 14.

DOT NR

88931 BOX OF 100

INDICATOR STICKS, pH 0-6 — ITEM 2659

Box of 100 sticks, 6 x 85 mm with color scale. Graduated in half units from pH 0 - 6.0.

DOT NR

88941 BOX OF 100

INDICATOR STICKS, pH 4.5-10.0 — ITEM 2968

Box of 100 sticks, 6 x 85 mm with color scale. Graduated in half units from pH 4.5 - 10.0.

DOT NR

89941 BOX OF 100

INDICATOR STICKS, pH 7-14 — ITEM 2660

Box of 100 sticks, 6 x 85 mm with color scale. Graduated in half units from pH 7.0 - 14.0.

DOT NR

88951 BOX OF 100

INDIUM, METAL, 99.999% — ITEM A3684

Powder and lumps

In F.W. 114.82

Assay (metals basis) 99.999%

CAS # 7440-74-6 DOT NR

45121 10 G

INDIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1749

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22490 100 ML
22492 500 ML

Specific Gravity 1.030

INDIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1748

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22480 100 ML
22482 500 ML

Specific Gravity 1.030

INDIUM ACETATE, 99.95% — ITEM A3690

Powder

$In(C_2H_3O_2)_3$ F.W. 291.96

CAS # 25114-58-3 DOT NR

45131 10 G
45132 50 G

INDIUM OXIDE, 99.99% — ITEM 1560

In_2O_3 F.W. 277.64

Assay (metals basis) 99.99%

CAS # 1312-43-2 DOT NR

45183 5 G
45181 25 G
45182 100 G

INDIUM OXIDE, 99.9% — ITEM A3721

In_2O_3 F.W. 277.64

CAS # 1312-43-2 DOT NR

45191 10 G
45192 50 G

INDIUM PERCHLORATE, HYDRATED, REAGENT — ITEM 296

$In(ClO_4)_3 \bullet 8H_2O$ F.W. 557.26

Assay (as indium) 19.0-21.0%
Chloride 0.01%
Iron 0.005%
Insoluble 0.01%
Sulfate 0.005%
pH of 5% solution 0-3

CAS # 13465-15-1 DOT 5.1/II

45201 25 G
45202 100 G

INDIUM SULFATE, 99.999% — ITEM A3741

$In_2(SO_4)_3 \bullet 9H_2O$ F.W. 679.98

CAS # 10294-68-5 DOT NR

45261 10 G

INDIUM SULFATE, 99.9% ITEM A3738

Variable degree of hydration.

$In_2(SO_4)_3 \bullet 9H_2O$ F.W. 679.98

Assay (metals basis) 99.9% min. Assay (as In) 32-40%

CAS # 10294-68-5 DOT NR

45251 10 G
45252 50 G

INDIUM SULFIDE, 99.999% ITEM A3744

-100 mesh powder

In_2S_3 F.W. 325.84

CAS # 12030-24-9 DOT NR

45281 1 G

INDIUM TRIFLATE

See Indium Trifluoromethanesulfonate

INDIUM TRIFLUOROMETHANESULFONATE ITEM 3531

Not on the TSCA inventory

$In(CF_3SO_3)_3$ F.W. 562.03

Assay 98% min.

CAS # 128008-30-0 DOT NR

45301 5 G
45302 25 G

INDOLE-2,3-DIONE

See Isatin

IN-SPEC® AMARANTH RED COLOR STANDARD, CUSTOM UV-VISIBLE REFERENCE MATERIAL ITEM 8414

Customer application specific photometric accuracy standard. Provide pathlength, wavelength of interest, and desired absorbance. Popular wavelengths include 280/320/523 nm. Please call for assistance.

DOT NR

86643 60 ML
86644 125 ML
86645 250 ML

IN-SPEC® PATENT BLUE COLOR STANDARD, CUSTOM UV-VISIBLE REFERENCE MATERIAL ITEM 8416

Customer application specific photometric accuracy standard. Provide pathlength, wavelength of interest, and desired absorbance. Popular wavelengths include 254/260/412 nm. Please call for assistance.

DOT NR

86646 60 ML
86647 125 ML
86648 250 ML

Specific Gravity 1.000

IN-SPEC® PURPLE COLOR STANDARD, PHOTOMETRIC ACCURACY REFERENCE ITEM 8587

Reference material for verification of UV-Visible spectrophotometers' photometric accuracy. Popular verification of requirements for BCA assay.

DOT NR

85836 60 ML
85837 125 ML
85838 250 ML

IN-SPEC® NANO KIT, PHOTOMETRIC ACCURACY VERIFICATION ITEM 8476

Standard kit for the verification of photometric accuracy at 260, 280 and 320 nm in a 1 mm pathlength spectrophotometer.

DOT NR

85412 8 ML KIT

IN-SPEC® UV STANDARD #1, PHOTOMETRIC ACCURACY REFERENCE STANDARD ITEM 8301

NIST Traceable, non-toxic reference material for the UV spectrophotometer. Full UV scan reported with a typical absorbance at 300 nm in 10 mm pathlength being approximately 0.039

Absorbance at 250 nm
Absorbance at 254 nm
Absorbance at 260 nm
Absorbance at 280 nm
Absorbance at 300 nm
Absorbance at 350 nm
Absorbance at 400 nm
Absorbance at 450 nm

DOT NR

86361 60 ML
85582 125 ML
86362 250 ML
86363 500 ML
86364 1 L

Specific Gravity 1.000

IN-SPEC® UV STANDARD # 2, PHOTOMETRIC ACCURACY REFERENCE STANDARD ITEM 8302

NIST Traceable, non-toxic reference material for the UV spectrophotometer. Full UV scan reported with a typical absorbance at 300 nm in 10 mm pathlength being approximately 0.060

Absorbance at 250 nm
Absorbance at 260 nm
Absorbance at 300 nm
Absorbance at 400 nm
Absorbance at 254 nm
Absorbance at 280 nm
Absorbance at 350 nm
Absorbance at 450 nm

DOT NR

86365	60 ML
85583	125 ML
86366	250 ML
86367	500 ML
86368	1 L

Specific Gravity 1.000

IN-SPEC® UV STANDARD # 3, PHOTOMETRIC ACCURACY REFERENCE STANDARD ITEM 8303

NIST Traceable, non-toxic reference material for the UV spectrophotometer. Full UV scan reported with a typical absorbance at 300 nm in 10 mm pathlength being approximately 0.079

Absorbance at 250 nm
Absorbance at 260 nm
Absorbance at 300 nm
Absorbance at 400 nm
Absorbance at 254 nm
Absorbance at 280 nm
Absorbance at 350 nm
Absorbance at 450 nm

DOT NR

86369	60 ML
85584	125 ML
86370	250 ML
86371	500 ML
86372	1 L

Specific Gravity 1.000

IN-SPEC® UV STANDARD # 4, PHOTOMETRIC ACCURACY REFERENCE STANDARD ITEM 8304

NIST Traceable, non-toxic reference material for the UV spectrophotometer. Full UV scan reported with a typical absorbance at 300 nm in 10 mm pathlength being approximately 0.131

Absorbance at 250 nm
Absorbance at 260 nm
Absorbance at 300 nm
Absorbance at 400 nm
Absorbance at 254 nm
Absorbance at 280 nm
Absorbance at 350 nm
Absorbance at 450 nm

DOT NR

86373	60 ML
85585	125 ML
86273	250 ML
86374	500 ML
86375	1 L

Specific Gravity 1.000

IN-SPEC® UV STANDARD # 5, PHOTOMETRIC ACCURACY REFERENCE STANDARD ITEM 8305

NIST Traceable, non-toxic reference material for the UV spectrophotometer. Full UV scan reported with a typical absorbance at 300 nm in 10 mm pathlength being approximately 0.155

Absorbance at 250 nm
Absorbance at 260 nm
Absorbance at 300 nm
Absorbance at 400 nm
Absorbance at 254 nm
Absorbance at 280 nm
Absorbance at 350 nm
Absorbance at 450 nm

DOT NR

86376	60 ML
85586	125 ML
86377	250 ML
86378	500 ML
86379	1 L

Specific Gravity 1.000

IN-SPEC® UV STANDARD # 6, PHOTOMETRIC ACCURACY REFERENCE STANDARD ITEM 8306

NIST Traceable, non-toxic reference material for the UV spectrophotometer. Full UV scan reported with a typical absorbance at 300 nm in 10 mm pathlength being approximately 0.201

Absorbance at 250 nm
Absorbance at 260 nm
Absorbance at 300 nm
Absorbance at 400 nm
Absorbance at 254 nm
Absorbance at 280 nm
Absorbance at 350 nm
Absorbance at 450 nm

DOT NR

86380	60 ML
85587	125 ML
86274	250 ML
86381	500 ML
86382	1 L

Specific Gravity 1.000

IN-SPEC® UV STANDARD # 7, PHOTOMETRIC ACCURACY REFERENCE STANDARD ITEM 8307

NIST Traceable, non-toxic reference material for the UV spectrophotometer. Full UV scan reported with a typical absorbance at 300 nm in 10 mm pathlength being approximately 0.230

Absorbance at 250 nm
Absorbance at 260 nm
Absorbance at 300 nm
Absorbance at 400 nm
Absorbance at 254 nm
Absorbance at 280 nm
Absorbance at 350 nm
Absorbance at 450 nm

DOT NR

86383	60 ML
85588	125 ML
86320	250 ML
86384	500 ML
86385	1 L

Specific Gravity 1.000

IN-SPEC® UV STANDARD # 8, PHOTOMETRIC ACCURACY REFERENCE STANDARD ITEM 8308

NIST Traceable, non-toxic reference material for the UV spectrophotometer. Full UV scan reported with a typical absorbance at 300 nm in 10 mm pathlength being approximately 0.253

Absorbance at 250 nm
Absorbance at 254 nm
Absorbance at 260 nm
Absorbance at 280 nm
Absorbance at 300 nm
Absorbance at 350 nm
Absorbance at 400 nm
Absorbance at 450 nm

DOT NR

86386	60 ML
85589	125 ML
86162	250 ML
86309	500 ML
86387	1 L

Specific Gravity 1.000

IN-SPEC® UV STANDARD # 20, PHOTOMETRIC ACCURACY REFERENCE STANDARD ITEM 8309

NIST Traceable, non-toxic reference material for the UV spectrophotometer. Full UV scan reported with a typical absorbance at 300 nm in 10 mm pathlength being approximately 0.508

Absorbance at 250 nm
Absorbance at 254 nm
Absorbance at 260 nm
Absorbance at 280 nm
Absorbance at 300 nm
Absorbance at 350 nm
Absorbance at 400 nm
Absorbance at 450 nm

DOT NR

86388	60 ML
85590	125 ML
86389	250 ML
86390	500 ML
86391	1 L

Specific Gravity 1.000

IN-SPEC® UV STANDARD # 30, PHOTOMETRIC ACCURACY REFERENCE STANDARD ITEM 8310

NIST Traceable, non-toxic reference material for the UV spectrophotometer. Full UV scan reported with a typical absorbance at 300 nm in 10 mm pathlength being approximately 0.754

Absorbance at 250 nm
Absorbance at 254 nm
Absorbance at 260 nm
Absorbance at 280 nm
Absorbance at 300 nm
Absorbance at 350 nm
Absorbance at 400 nm
Absorbance at 450 nm

DOT NR

86392	60 ML
85591	125 ML
86155	250 ML
86393	500 ML
86394	1 L

Specific Gravity 1.000

IN-SPEC® VISIBLE STANDARD 0.05, PHOTOMETRIC ACCURACY REFERENCE STANDARD ITEM 8311

NIST Traceable, non-toxic reference material for the visible spectrophotometer. Full visible scan reported with a typical absorbance at 600 nm in 10 mm pathlength being approximately 0.034

Absorbance at 400 nm
Absorbance at 450 nm
Absorbance at 500 nm
Absorbance at 550 nm
Absorbance at 600 nm
Absorbance at 650 nm
Absorbance at 700 nm
Absorbance at 750 nm
Absorbance at 800 nm

DOT NR

86395	60 ML
85592	125 ML
86396	250 ML
86397	500 ML
86398	1 L

Specific Gravity 1.000

IN-SPEC® VISIBLE STANDARD 0.1, PHOTOMETRIC ACCURACY REFERENCE STANDARD ITEM 8312

NIST Traceable, non-toxic reference material for the visible spectrophotometer. Full visible scan reported with a typical absorbance at 600 nm in 10 mm pathlength being approximately 0.072

Absorbance at 400 nm
Absorbance at 450 nm
Absorbance at 500 nm
Absorbance at 550 nm
Absorbance at 600 nm
Absorbance at 650 nm
Absorbance at 700 nm
Absorbance at 750 nm
Absorbance at 800 nm

DOT NR

86399	60 ML
85593	125 ML
86400	250 ML
85594	500 ML
86401	1 L

Specific Gravity 1.000

IN-SPEC® VISIBLE STANDARD 0.3, PHOTOMETRIC ACCURACY REFERENCE STANDARD ITEM 8322

NIST Traceable, non-toxic reference material for the visible spectrophotometer. Full visible scan reported with a typical absorbance at 600 nm in 10 mm pathlength being approximately 0.212

Absorbance at 400 nm
Absorbance at 450 nm
Absorbance at 500 nm
Absorbance at 550 nm
Absorbance at 600 nm
Absorbance at 650 nm
Absorbance at 700 nm
Absorbance at 750 nm
Absorbance at 800 nm

DOT NR

86695	60 ML
86276	125 ML
86806	250 ML
86310	500 ML
86807	1 L

Specific Gravity 1.000

IN-SPEC® VISIBLE STANDARD 0.5, PHOTOMETRIC ACCURACY REFERENCE STANDARD ITEM 8313

NIST Traceable, non-toxic reference material for the visible spectrophotometer. Full visible scan reported with a typical absorbance at 600 nm in 10 mm pathlength being approximately 0.368

Absorbance at 400 nm
Absorbance at 500 nm
Absorbance at 600 nm
Absorbance at 700 nm
Absorbance at 800 nm
Absorbance at 450 nm
Absorbance at 550 nm
Absorbance at 650 nm
Absorbance at 750 nm

DOT NR

86402	60 ML
85595	125 ML
86163	250 ML
86403	500 ML
86404	1 L

Specific Gravity 1.000

IN-SPEC® VISIBLE STANDARD 0.8, PHOTOMETRIC ACCURACY REFERENCE STANDARD ITEM 8314

NIST Traceable, non-toxic reference material for the visible spectrophotometer. Full visible scan reported with a typical absorbance at 600 nm in 10 mm pathlength being approximately 0.566

Absorbance at 400 nm
Absorbance at 500 nm
Absorbance at 600 nm
Absorbance at 700 nm
Absorbance at 800 nm
Absorbance at 450 nm
Absorbance at 550 nm
Absorbance at 650 nm
Absorbance at 750 nm

DOT NR

86405	60 ML
85596	125 ML
86406	250 ML
86407	500 ML
86408	1 L

Specific Gravity 1.000

IN-SPEC® VISIBLE STANDARD 1.0, PHOTOMETRIC ACCURACY REFERENCE STANDARD ITEM 8315

NIST Traceable, non-toxic reference material for the visible spectrophotometer. Full visible scan reported with a typical absorbance at 600 nm in 10 mm pathlength being approximately 0.767

Absorbance at 400 nm
Absorbance at 500 nm
Absorbance at 600 nm
Absorbance at 700 nm
Absorbance at 800 nm
Absorbance at 450 nm
Absorbance at 550 nm
Absorbance at 650 nm
Absorbance at 750 nm

DOT NR

86409	60 ML
85598	125 ML
86524	250 ML
86161	500 ML
86410	1 L

Specific Gravity 1.000

IN-SPEC® VISIBLE STANDARD 4.0, PHOTOMETRIC ACCURACY REFERENCE STANDARD ITEM 8316

NIST Traceable, non-toxic reference material for the visible spectrophotometer. Full visible scan reported with a typical absorbance at 600 nm in 10 mm pathlength being approximately 2.917

Absorbance at 400 nm
Absorbance at 500 nm
Absorbance at 600 nm
Absorbance at 700 nm
Absorbance at 800 nm
Absorbance at 450 nm
Absorbance at 550 nm
Absorbance at 650 nm
Absorbance at 750 nm

DOT NR

85599	60 ML
85600	125 ML
86284	250 ML
86411	500 ML
86412	1 L

Specific Gravity 1.000

IN-SPEC® UV/VIS VERIFICATION KIT ITEM 8658

Kit contains 125 mL bottles of In-Spec UV 8 and Visible 0.5 standards and 30 mL bottles of potassium chloride stray light filter and holmium oxide wavelength standard.

87020	KIT

IN-SPEC® TRANSMITTANCE LINEARITY KIT ITEM 8446

Kit consists of Transmittance Background solution, 250 ml, and Transmittance solutions of 20%, 40%, 60%, 125 ml each and 80%, 250 ml. NIST Traceable

DOT NR

86624	BMG KIT

IN-SPEC® TRANSMITTANCE STANDARD, 20% ITEM 8445

Transmittance (at 635 nm) 20%T ± 0.3 %T

DOT NR

86992	60 ML
86994	125 ML

Specific Gravity 1.000

IN-SPEC® TRANSMITTANCE STANDARD, 40% ITEM 8444

Transmittance (at 635 nm) 40%T ± 0.4 %T

DOT NR

86991	60 ML
86622	125 ML

Specific Gravity 1.000

IN-SPEC® TRANSMITTANCE STANDARD, 60% ITEM 8443

Transmittance (at 635 nm) 60%T ± 0.6 %T

DOT NR

86990 60 ML
86620 125 ML

Specific Gravity 1.000

IN-SPEC® TRANSMITTANCE STANDARD, 80% ITEM 8442

Transmittance (at 635 nm) 80%T ± 0.7 %T

DOT NR

86989 60 ML
86619 125 ML

Specific Gravity 1.000

IN-SPEC® WAVELENGTH VERIFICATION STANDARD, DIDYMIUM OXIDE ITEM 8378

Didymium oxide (4%) in 10% v/v perchloric acid. For the verification of the UV-Visible spectrophotometer wavelength scale.

Peak 298.3
Peak 329.2
Peak 354.5
Peak 444.5
Peak 469.4
Peak 481.7
Peak 512.4
Peak 521.9
Peak 575.7
Peak 732.4
Peak 740.6
Peak 794.8
Peak 801.9
Peak 865.6

CAS # 11141-21-2 DOT 8/III

85985 10 MM CELL
86826 60 ML

IN-SPEC® WAVELENGTH VERIFICATION STANDARD, HOLMIUM OXIDE ITEM 8340

Holmium oxide (4%) in 10% v/v perchloric acid. For the verification of the UV-Visible spectrophotometer wavelength scale.

F.W. 571.38

Peak 241.1
Peak 249.9
Peak 278.1
Peak 287.2
Peak 333.5
Peak 345.4
Peak 361.3
Peak 385.6
Peak 416.3
Peak 451.5
Peak 467.8
Peak 485.2
Peak 536.6
Peak 640.5

DOT 8/III

85986 10 MM CELL
86825 60 ML

IN-SPEC® WAVELENGTH VERIFICATION STANDARD, SAMARIUM OXIDE ITEM 8379

Samarium oxide (4%) in 10% v/v perchloric acid. For the verifcation of the UV-Visible spectrophotometer wavelength scale.

Peak 235.5
Peak 266.8
Peak 279.7
Peak 290.2
Peak 305.0
Peak 318.3
Peak 332.4
Peak 344.7
Peak 401.4
Peak 415.5
Peak 441.7
Peak 464.3
Peak 479.2

CAS # 13569-60-3 DOT 8/III

86525 10 MM CELL
86827 60 ML

IN-SPEC® STRAY LIGHT STANDARD, POTASSIUM IODIDE, 1% SOLUTION ITEM 8380

UV cutoff 260 nm

KI F.W. 166.00

UV Cutoff at 260nm
Suitability as UV-Vis Stray Light indicator

CAS # 7681-11-0 DOT NR

86526 10 MM CELL
86828 60 ML

Specific Gravity 1.010

IN-SPEC® STRAY LIGHT STANDARD, SODIUM IODIDE, 1% SOLUTION ITEM 8381

UV cutoff 260 nm

NaI F.W. 149.89

UV Cutoff at 260nm
Suitability as UV-Vis Stray Light indicator

CAS # 7681-82-5 DOT NR

86527 10 MM CELL
86829 60 ML

IN-SPEC® SPECTRAL RESOLUTION STANDARD, TOLUENE 0.02% in HEXANE ITEM 8473

For determining peak resolution due to varying spectral bandwidths or slitwidths.

Lambda max.
Absorbance at lambda max.
Lambda min.
Absorbance at lambda min.
Ratio of maximum to minimum (approximately 2.1)
Spectral Bandwidth

DOT 3/II

85342 10 MM CELL

INSTRUMENT CALIBRATION STANDARDS

See AMCO Clear Turbidity Standard, 0,1 NTU

IODIC ACID, REAGENT (ACS) ITEM 44

HIO_3 F.W. 175.91

Assay 99.5% min
Residue after ignition 0.02%
Sulfate 0.015%
Iron 0.002%
Nitrogen compounds (as N) 0.1%
Insoluble 0.01%
Chloride and bromide (as Cl) 0.02%
Heavy metals (Pb) 0.001%
Iodide - Pass test (about 0.01%)

CAS # 7782-68-5 DOT 5.1/8/II NFPA # 2-1-1

45406	25 G
45401	100 G
45402	500 G
45403	2.5 KG
45404	10 KG
45405	50 KG

IODIDE, 1,000 ppm, ION CHROMATOGRAPHY STANDARD SOLUTION ITEM 3763

Concentration (as I) 1,000 ± 10 ug/mL Matrix: NaI, water

DOT NR

23901	100 ML
23902	500 ML

Specific Gravity 1.000

IODINE, 99.99+% ITEM 3568

I_2 F.W. 253.81

Assay (metals basis) 99.99+%

CAS # 7553-56-2 DOT 8/6.1/III

45571	10 G
45572	100 G

IODINE, REAGENT (ACS) ITEM 723

I_2 F.W. 253.81

Assay 99.8% min
Nonvolatile matter 0.01%
Chlorine and bromine (as Cl) 0.005%

CAS # 7553-56-2 DOT 8/6.1/III NFPA # 3-0-2

45601	100 G
45602	500 G
45603	2.5 KG
45604	10 KG

IODINE, PRILLED, 99% ITEM 2748

I_2 F.W. 253.81

Assay 99.0% min.

CAS # 7553-56-2 DOT 8/6.1/III NFPA # 3-0-2

45581	100 G
45582	500 G
45583	2 KG

IODINE, SOLUTION, 1 N ITEM 1163

0.5 mol/L. Solution consists of iodine and potassium iodide in water.

I_2 F.W. 253.81

Normality 1.000 ± 0.005 N

CAS # 7553-56-2 DOT NR NFPA # 3-0-1

45611	500 ML
45613	6 X 500 ML
45614	4 L
45615	4 X 4 L

Specific Gravity 1.320

IODINE, SOLUTION, 0.5 N ITEM 2073

0.25 mol/L. Solution consists of iodine and potassium iodide in water.

I_2 F.W. 253.81

Exact normality 0.5 ± 0.005

CAS # 7553-56-2 DOT NR

24721	500 ML

Specific Gravity 1.200

IODINE, SOLUTION, 0.1 N ITEM 1164

0.05 mol/L. Solution consists of iodine and potassium iodide in water.

I_2 F.W. 253.81

Normality 0.1000 N ± 0.0005 N

CAS # 7553-56-2 DOT NR NFPA # 3-0-1

45621	500 ML
45623	6 X 500 ML
45624	4 L
45625	4 X 4 L

Specific Gravity 1.034

IODINE MONOCHLORIDE, REAGENT (ACS) ITEM 2400

Suitable for use in Wijs Solution

ICl F.W. 162.36

Assay (I/Cl ratio) 1.10 ± 0.1 Insoluble Matter 0.005%

CAS # 7790-99-0 DOT 8/II

88212	25 G
88213	100 G

Specific Gravity 03180

IODINE MONOCHLORIDE SOLUTION

See Wijs' Solution

IODINE OXIDE, 99.99% — ITEM 5033

Di-iodine pentoxide

I_2O_5 F.W. 333.81

Assay (metals basis) 99.99% min.

CAS # 12029-98-0 DOT 5.1/8/II

87291 10 G
87292 50 G

IODINE PENTOXIDE

See Iodine Oxide

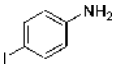
4-IODOANILINE, 98% — ITEM 3986

$IC_6H_4NH_2$ F.W. 219.03

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms

CAS # 540-37-4 DOT NR

11951 25 G
11952 100 G



1-IODOBUTANE — ITEM 3988

Stabilized with copper.

C_4H_9I F.W. 184.02

Assay 98%
Store over copper shot or copper helix

CAS # 542-69-8 DOT 3/III NFPA # 1-3-0

11971 100 G
11972 500 G

Specific Gravity 1.617

2-IODOBUTANE, 99% — ITEM 5188

sec-Butyl iodide. Stored over copper.

$CH_3CHICH_2CH_3$ F.W. 184.02

Assay (GC-FID), 98.5% min
Identification by GC/MS - Conforms
Color - Colorless to yellow
Clarity / Form - Clear, liquid

CAS # 513-48-4 DOT 3/II

11981 100 G
11982 500 G

Specific Gravity 1.598

1-IODODECANE, 98% — ITEM 3483

Stabilized with copper.

$CH_3(CH_2)_9I$ F.W. 268.18

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms
Store over copper - Confirm presence
Color - Colorless to yellow
Clarity / Form - Clear, liquid

CAS # 2050-77-3 DOT NR

Please Inquire For Sizes

Specific Gravity 1.257

1-IODO-3,3-DIMETHYLBUTANE — ITEM 3467

Not on the TSCA inventory.

$(CH_3)_3CCH_2CH_2I$ F.W. 212.07

Assay (GC-FID) 97.5% min.
Identification by GC/MS - Conforms
Stabilizer (Copper), Confirm presence
Appearance - Clear, colorless to yellow liquid

CAS # 15672-88-5 DOT 3/III

11991 10 G
11992 100 G

1-IODO-2,2-DIMETHYLPROPANE, 98% — ITEM 2532

Neopentyl iodide. Stabilized with copper.

$(CH_3)_3CCH_2I$ F.W. 198.05

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms
Appearance- Clear, colorless to light brown liquid
Stored over copper - Confirm presence

CAS # 15501-33-4 DOT 3/III

17051 5 G
17052 25 G
17053 100 G
17054 1 KG

Specific Gravity 1.493

1-IODODODECANE — ITEM 3989

Stabilized with copper.

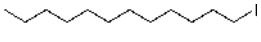
$CH_3(CH_2)_{11}I$ F.W. 296.23

Assay 98% — Store over copper shot or copper helix

CAS # 4292-19-7 DOT NR

Please Inquire For Sizes

Specific Gravity 1.201



2-IODOETHYLCYCLOHEXANE, 98% — ITEM 5227

2-Cyclohexyl-1-iodoethane. Stabilized with copper. Not on the TSCA inventory.

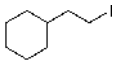
$C_6H_{11}CH_2CH_2I$ F.W. 238.11

Assay (GC-FID), 97.5% min — Identification by GC/MS - Conforms
Store over copper shot or copper helix - Confirm

CAS # 80203-35-6 DOT NR

Please Inquire For Sizes

Specific Gravity 1.414



1-IODOHEPTANE — ITEM 3990

Stored over copper.

$CH_3(CH_2)_6I$ F.W. 226.10

CAS # 4282-40-0 DOT NR

12031 100 G
12032 500 G

Specific Gravity 1.379

1-IODOHEXADECANE — ITEM 3991

Stored over copper.

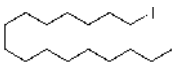
$CH_3(CH_2)_{15}I$ F.W. 352.35

Assay 95% — Store over copper shot or copper helix

CAS # 544-77-4 DOT NR

12041 25 G
12042 100 G

Specific Gravity 1.121



1-IODOHEXANE, 98% — ITEM 3992

Stored over copper.

$CH_3(CH_2)_5I$ F.W. 212.08

Assay (GC-FID), 97.5% min — H2O (KF), 0.5% max
Store over copper shot or copper helix — Identification by GC/MS - Conforms

CAS # 638-45-9 DOT NR

12051 25 G
12052 100 G

Specific Gravity 1.437

1-IODO-3-METHYLBUTANE, 97% — ITEM 4811

Isoamyl iodide. Stored over copper.

$(CH_3)_2CHCH_2CH_2I$ F.W. 198.05

Assay (GC-FID) 96.5% min. — Identification by GC/MS - Conforms
Water (Karl Fischer) - 0.5% max

CAS # 541-28-6 DOT 3/III

16061 10 G
16062 50 G

Specific Gravity 1.497

IODOMETHYLCYCLOHEXANE — ITEM 5226

Cyclohexyliodomethane. Stabilized with copper. Not on the TSCA inventory.

$C_6H_{11}CH_2I$ F.W. 224.08

Assay - report — Store over copper shot or copper helix

CAS # 5469-33-0 DOT NR

Please Inquire For Sizes

Specific Gravity 1.497

1-IODO-4-METHYLPENTANE, 98% — ITEM 5225

4-Methyl-1-iodopentane. Stabilized with copper.

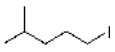
$I(CH_2)_3CH(CH_3)_2$ F.W. 212.07

Assay (GC-FID), 97.5% min — Identification by GC/MS - Conforms
Stabilizer (Copper), Confirm presence — Appearance - Clear, colorless to yellow liquid

CAS # 6196-80-1 DOT NR

20691 5 G
20692 25 G
20693 100 G
20694 500 G

Specific Gravity 1.372



1-IODONONANE — ITEM 3993

Stored over copper.

$CH_3(CH_2)_8I$ F.W. 254.16

Assay 95% — Store over copper shot or copper helix

CAS # 4282-42-2 DOT NR

Please Inquire For Sizes

Specific Gravity 1.288

1-IODOOCTADECANE — ITEM 3994

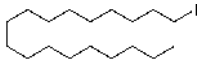
Stored over copper.

$CH_3(CH_2)_{17}I$ F.W. 380.40

Assay 95% — Store over copper shot or copper helix

CAS # 629-93-6 DOT NR

12091 25 G
12092 100 G



1-IODOOCTANE — ITEM 3995

Stored over copper.

$CH_3(CH_2)_7I$ F.W. 240.13

Assay 98% — Store over copper shot or copper helix

CAS # 629-27-6 DOT NR

12111 25 G
12112 100 G

Specific Gravity 1.330

1-IODOPENTANE, 98% — ITEM 3474

Stabilized with copper.

$CH_3(CH_2)_4I$ F.W. 198.08

Assay (GC-FID), 97.5% min — Identification by GC/MS - Conforms
Color - Colorless to yellow — Stabilizer (Copper) - Confirm presence
Clarity / Form - Clear, liquid

CAS # 628-17-1 DOT 3/III

10011 100 G
10012 500 G

Specific Gravity 1.510

3-IODOPHENOL — ITEM 3997

Stored over copper.

IC_6H_4OH F.W. 220.01

Assay 98% — Store over copper shot or copper helix

CAS # 626-02-8 DOT NR

12121 5 G
12122 25 G
12123 100 G

(4-IODOPHENYL)ETHYNYLTRIMETHYLSILANE

See Trimethylsilyl Ethynyl-4-Iodobenzene

1-IODOPROPANE — ITEM 3998

Stored over copper.

$CH_3(CH_2)_2I$ F.W. 169.99

Assay 98% — Store over copper shot or copper helix

CAS # 107-08-4

12131 100 G
12132 500 G

Specific Gravity 1.743

4-IODOPYRIDINE, 98% — ITEM 3565

Refrigeration required. NOT on the TSCA Inventory.

C_5H_4IN F.W. 205.00

Assay (GC-FID), 97.5% min

CAS # 15854-87-2 DOT NR

45661 1 G
45662 10 G

N-IODOSUCCINIMIDE — ITEM 5189

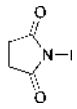
Not on the TSCA inventory.

$C_4H_4O_2NI$ F.W. 224.99

Assay 95%

CAS # 516-12-1 DOT NR

Please Inquire For Sizes



2-IODOTHIOPHENE — ITEM 5289

C_4H_3SI F.W. 210.04

CAS # 3437-95-4

Please Inquire For Sizes

1-IODO-4-TRIMETHYLSILYLETHYNYLBENZENE

See Trimethylsilyl Ethynyl-4-Iodobenzene

ION-EXCHANGE RESIN

See Royer Anion Exchange Resin

IRIDIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1751

Concentration 10,000 ± 100 ug/ml Matrix: 20% Hydrochloric acid
NIST Traceable

DOT 8/II NFPA # 3-0-2

22510	100 ML
22512	500 ML

Specific Gravity 1.040

IRIDIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1750

Concentration 1,000 ± 10 ug/ml Matrix: 20% Hydrochloric acid
NIST Traceable

DOT 8/II NFPA # 3-0-2

22500	100 ML
22502	500 ML

Specific Gravity 1.040

IRON, ELECTROLYTIC, PRIMARY STANDARD — ITEM 226

Typically 10-35 mesh.

Fe F.W. 55.85

Assay 99.90 - 100.00%

CAS # 7439-89-6 DOT NR NFPA # 1-0-1

45801	100 G
45802	500 G

IRON, POWDER, 99.9% — ITEM 1570

100 mesh and finer

Fe F.W. 55.85

Assay (metals basis) 99.9% min

CAS # 7439-89-6 DOT NR NFPA # 1-3-1

45781	500 G
45782	2.5 KG
45783	10 KG

IRON, POWDER, 99% — ITEM A3829

100 mesh and finer

Fe F.W. 55.85

Assay (metals basis) 99% min

CAS # 7439-89-6 DOT NR NFPA # 1-3-1

45791	500 G

IRON, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1753

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22530	100 ML
22532	500 ML

Specific Gravity 1.030

IRON, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1752

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22520	100 ML
22522	500 ML

Specific Gravity 1.030

IRON, 1,000 ppm STANDARD SOLUTION ITEM 545

AA, colorimetric or volumetric standard

Concentration 1,000 ± 10 ug/ml Matrix: <1% Hydrochloric acid
NIST Traceable

DOT NR NFPA # 1-0-1

70180 100 ML
70182 500 ML

Specific Gravity 1.000

IRON, 10 ppm STANDARD SOLUTION ITEM 544

For AA, colorimetric and volumetric analysis

Concentration 10 ug/ml Matrix: <1% Hydrochloric acid
NIST Traceable

DOT NR NFPA # 1-0-1

70170 100 ML
70172 500 ML

Specific Gravity 1.010

IRON, 1 ppm STANDARD SOLUTION ITEM 1085

AA, colorimetric or volumetric standard

Concentration 1 ug/ml Matrix: <1% Hydrochloric acid
NIST Traceable

DOT NR NFPA # 1-0-1

70160 100 ML
70162 500 ML

Specific Gravity 1.010

IRON EDTA

See Ferric Sodium Ethylenediaminetetraacetate

IRON ORE SAMPLES

See Standard Iron Ore Samples

IRON OXIDE

See Ferric Oxide

IRON (II,III) OXIDE

See Ferrous/Ferric Oxide

IRON (III) SULFATE

See Ferric Sulfate, Hydrated

IRON (II) SULFATE

See Ferrous Sulfate, Heptahydrate

ISATIN, 98% ITEM 2747

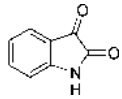
Indole-2,3-dione

$C_8H_5NO_2$ F.W. 147.13

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms

CAS # 91-56-5 DOT NR

45331 10 G
45332 50 G
45333 250 G



ISOAMYL ALCOHOL, REAGENT (ACS) ITEM 2295

Isopentyl Alcohol

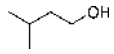
$C_5H_{11}OH$ F.W. 88.15

Assay 98.5% min. Water 0.5%
Titrable acid 0.002 meq/g Residue after evaporation 0.003%
Acids and esters (as amyl acetate) 0.2% Carbonyl (as HCHO) 0.1%

CAS # 123-51-3 DOT 3/III

46011 500 ML
46012 4 L
46013 4 X 4 L

Specific Gravity 0.809



ISOAMYL IODIDE

See 1-Iodo-3-Methylbutane, 97%

ISOBUTANOL

See Isobutyl Alcohol

ISOBUTYL ALCOHOL, REAGENT (ACS) ITEM 934

2-Methyl-1-propanol

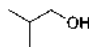
$(CH_3)_2CHCH_2OH$ F.W. 74.12

Assay 99.0% min. Carbonyl cmpds (as butyraldehyde) 0.01%
Carbonyl cmpds
(as 2-butanone) 0.02% Color(APHA) - 10 max.
Residue after evaporation 0.001% Solubility in water - pass test
Titrable acid 0.0005 meq/g Water 0.1%

CAS # 78-83-1 DOT 3/III NFPA # 1-3-0

46031 500 ML
46032 4 L

Specific Gravity 0.800



ISOBUTYL BROMIDE, 99% ITEM 4527

1-Bromo-2-methylpropane

$(CH_3)_2CHCH_2Br$ F.W. 137.02

Assay (GC-FID), 98.5% min
Color - Colorless to faint yellow
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 78-77-3 DOT 3/II

Please Inquire For Sizes

Specific Gravity 1.272

ISOBUTYL METHYL KETONE

See 4-Methyl-2-Pentanone

ISOOCTANE

See 2,2,4-Trimethylpentane

ISOPENTANE, 99% ITEM 2961

2-Methylbutane

$CH_3CH_2CH(CH_3)_2$ F.W. 72.15

Assay (GC-FID), 98.5% min
Appearance - Clear, colorless liquid

CAS # 78-78-4 DOT 3/I NFPA # 1-4-0

46081	500 ML
46082	6 X 500 ML
46085	4 L
46086	4 X 4 L

Specific Gravity 0.620

ISOPROPANOL

See Isopropyl Alcohol

ISOPROPANOL/CYCLOHEXANE

See Cyclohexane/Isopropyl Alcohol

ISOPROPENYLACETYLENE

See 2-Methyl-1-Buten-3-yne, 99%

ISOPROPENYL BROMIDE

See 2-Bromopropene, 99%

ISOPROPENYLMAGNESIUM BROMIDE, in ETHYL ETHER ITEM 5292

Not on the TSCA inventory.

$H_2C=C(CH_3)MgCl$ F.W. 157.29

Concentration - report

CAS # 13291-18-4 DOT 4.3/3/I

Please Inquire For Sizes

ISOPROPENYLMAGNESIUM BROMIDE, 1.5 M, in METHYL TETRAHYDROFURAN ITEM 5561

Not on the TSCA inventory list.

$H_2C=C(CH_3)MgBr$ F.W. 145.28

Active concentration, 1.45 M min
Density(g/ml), Report

CAS # 13291-18-4 DOT 4.3/3/I NFPA # 3-4-3

Please Inquire For Sizes

ISOPROPENYLMAGNESIUM BROMIDE, in TETRAHYDROFURAN ITEM 5291

Not on the TSCA inventory.

$H_2C=C(CH_3)MgBr$ F.W. 145.28

Active Concentration, 0.45 M - 0.55 M
Density (g/ml), Report

CAS # 13291-18-4 DOT 4.3/3/I NFPA # 3-4-3

17523	1 L
17524	4L
17522	19 L
17525	60L
17521	200 L

Specific Gravity 0.927

ISOPROPYL ACETYLENE

See 3-Methyl-1-Butyne, 96%

ISOPROPYL ALCOHOL, VERITAS® ULTIMATE ITEM 5569

2-Propanol

$CH_3CHOHCH_3$ F.W. 60.10

Assay 99.90%
Residue after evaporation 0.0001%
Titrable acid 0.0002 meq/g
Fluorescence 500 ppt max
UV at 210 nm 0.35 max
UV at 230 nm 0.06 max
UV at 260 nm 0.01 max
ECD responsive substances 5 pg/ml
Color (APHA) 10 max
Water 0.05%
UV cut-off 204 nm
UV at 220 nm 0.10 max
UV at 254 nm 0.02 max

CAS # 67-63-0 DOT 3/II NFPA # 1-3-0

18071	4 L
18072	4 X 4 L

Specific Gravity 0.786

ISOPROPYL ALCOHOL, DISTILLED IN GLASS — ITEM 1243

Suitable for pesticide analysis, gas chromatography, liquid chromatography and spectrophotometry. Meets all ACS specifications.

$CH_3CHOHCH_3$ F.W. 60.10

Assay (GLC) 99.5% min
Residue after evaporation 0.0003%
Chlorinated hydrocarbon residue 10 pg/ml
Water 0.10%

CAS # 67-63-0 DOT 3/II NFPA # 1-3-0

46113	1 L
46114	6 X 1 L
46111	4 L
46112	4 X 4 L

Specific Gravity 0.786

ISOPROPYL ALCOHOL, HPLC — ITEM 2489

Meets ACS Specifications for Ultraviolet Spectrophotometry

$CH_3CHOHCH_3$ F.W. 60.10

Assay 99.7% min.
Carbonyl Compounds (as acetone) 0.002%
Water 0.1%
Solubility in water - pass test
UV Absorbance at 205 nm 1.00
UV Absorbance at 230 nm 0.20
Carbonyl compounds (as propionaldehyde) 0.002%
Residue after evaporation 0.0003%
Color (APHA) 10 max.
Titrable acid or base 0.0001 meq/g
UV Absorbance at 220 nm 0.30
UV Absorbance at 260 nm 0.04

CAS # 67-63-0 DOT 3/II NFPA # 1-3-0

46131	1 L
46132	6 X 1 L
46133	4 L
46134	4 X 4 L
46135	4 L PVC
46136	4 X 4L PVC

Specific Gravity 0.786

ISOPROPYL ALCOHOL, REAGENT (ACS) ITEM 2294

Isopropanol or 2-Propanol

$CH_3CHOHCH_3$ F.W. 60.10

Assay 99.5% min.
Carbonyl Compounds (as acetone) 0.002%
Residue after evaporation 0.001%
Water 0.2%
Carbonyl Compounds (as propionaldehyde) 0.002%
Color (APHA) 10 max.
Solubility in water - pass test
Titrable acid or base 0.0001 meq/g

CAS # 67-63-0 DOT 3/II NFPA # 1-3-0

46124	1 L
46125	6 X 1 L
46121	4 L
46122	4 X 4 L
46123	20 L
46126	200 L

Specific Gravity 0.786

ISOPROPYL ALCOHOL — ITEM 817

Isopropanol or 2-Propanol. Iron and Copper free

$CH_3CHOHCH_3$ F.W. 60.10

Iron, 5 ppm max
Copper, 5 ppm max

CAS # 67-63-0 DOT 3/II NFPA # 1-3-0

46102	4 L
46103	4 X 4 L
46104	20 L

Specific Gravity 0.786

ISOPROPYL ALCOHOL, 70% v/v, in WATER — ITEM 9143

$CH_3CHOHCH_3$ F.W. 60.10

Concentration 70 ± 2% v/v
Density 0.865 - 0.874 g/mL

CAS # 67-63-0 DOT 3/II

18221	4 L
18222	4 X 4 L
18223	20 L

Specific Gravity 0.927

ISOPROPYL BROMIDE

See 2-Bromopropane, 99%

2-ISOPROPYL-2,3-DIMETHYLBUTYRONITRILE

See 2,2-Diisopropylpropanenitrile

ISOPROPYLMAGNESIUM BROMIDE, 0.8 M, in TETRAHYDROFURAN — ITEM 5195

$(CH_3)_2CHMgBr$ F.W. 147.30

Concentration 0.80 ± 0.10 M

CAS # 920-39-8 DOT 4.3/3/I NFPA # 3-4-3

Please Inquire For Sizes

Specific Gravity 0.966

KARL FISCHER REAGENT

See Watermark Karl Fischer Reagent, Pyridine Free Single Solution, 5 mg/mL

LAB KADDY, Plastic apparatus — ITEM 635

No need to touch cuvettes or test tubes (up to 100 mm long) while cleaning using this unique lab aid. Constructed of PP, with room for 18 cuvettes, unit permits self-draining and dust-free storage.

DOT NR

78351 EACH

LACTIC ACID, 85%, REAGENT (ACS) — ITEM 785

$C_3H_6O_3$ F.W. 90.08

Assay 85.0-90.0%
Residue after ignition 0.02%
Chloride 0.001%
Sulfate 0.002%
Heavy metals (as Pb) 0.0005%
Iron 0.0005%
Substances darkened by sulfuric acid - Pass Test

CAS # 50-21-5 DOT 8/II NFPA # 1-1-1

46201 500 ML **0**
46202 2.5 L

Specific Gravity 1.207

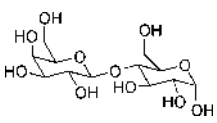
LACTOSE, MONOHYDRATE, REAGENT (ACS) — ITEM 935

$C_{12}H_{22}O_{11}•H_2O$ F.W. 360.32

Insoluble 0.005%
Residue after ignition 0.03%
Dextrose-pass test
Sucrose-pass test
Heavy metals (as Pb) 0.0005%
Iron 0.0005%
Water 4.0-6.0%

CAS # 64044-51-5 DOT NR NFPA # 0-1-1

46231 500 G
46232 2.5 KG



LANTHANUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1755

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22550 100 ML
22552 500 ML

Specific Gravity 1.030

LANTHANUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1754

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22540 100 ML
22542 500 ML

Specific Gravity 1.030

LANTHANUM, 1,000 ppm STANDARD SOLUTION — ITEM 749

AA, colorimetric or volumetric standard

Concentration 1,000 ± 10 ug/ml Matrix: <1% Hydrochloric acid
NIST Traceable

DOT NR NFPA # 1-0-0

70190 100 ML
70192 500 ML

Specific Gravity 1.000

LANTHANUM ACETATE, HYDRATED, 99.9% — ITEM A4014

$La(C_2H_3O_2)_3•1\text{-}1/2H_2O$ F.W. 343.07

Assay (metals basis) 99.9%
Lanthanum content (EDTA titration) 38.5%-42.0%

CAS # 25721-92-0 DOT NR NFPA # 1-0-0

46271 100 G
46272 500 G

LANTHANUM ACETYLACETONATE — ITEM 5134

Not on the TSCA inventory. For R&D use only.

$La(C_5H_7O_2)_3•XH_2O$ F.W. 436.24 (ANHYD.)

Volatile mater 0.30%
Melting point 135-145 C

CAS # 64424-12-0 DOT NR

12171 10 G
12172 100 G

L

LANTHANUM CARBONATE, 99.99% ITEM 5135

$La_2(CO_3)_3 \bullet 8H_2O$ F.W. 601.97

Assay (metals basis) 99.99%

CAS # 6487-39-4 DOT NR

12181	25 G
12182	100 G

LANTHANUM CARBONATE, 99.9% ITEM A4029

$La_2(CO_3)_3 \bullet 8H_2O$ F.W. 601.97

Assay (metals basis) 99.9%

CAS # 6487-39-4 DOT NR

46292	25 G
46291	100 G
46293	500 G

LANTHANUM CHLORIDE, HEPTAHYDRATE, 99.999% ITEM A4043

$LaCl_3 \bullet 7H_2O$ F.W. 371.37

Assay (metals basis) 99.999% Assay (as LaCl3) 64.5-70.0%

CAS # 10025-84-0 DOT NR NFPA # 1-0-0

46332	10 G
46331	50 G
46333	250 G

LANTHANUM CHLORIDE, HEPTAHYDRATE, 99.99% ITEM A4042

$LaCl_3 \bullet 7H_2O$ F.W. 371.37

Assay (metals basis) 99.99% Assay (as LaCl3) 64.5-70.0%

CAS # 10025-84-0 DOT NR NFPA # 1-0-0

46322	25 G
46321	100 G

LANTHANUM CHLORIDE, HEPTAHYDRATE, 99.9% ITEM 2218

$LaCl_3 \bullet 7H_2O$ F.W. 371.37

Assay (metals basis) 99.9% Assay (as LaCl3) 64.5-70.0%

CAS # 10025-84-0 DOT NR NFPA # 1-0-0

26171	100 G
26172	500 G

LANTHANUM CHLORIDE, HEPTAHYDRATE, REAGENT (ACS) ITEM 634

$LaCl_3 \bullet 7H_2O$ F.W. 371.37

Assay (as LaCl3) 64.5-70.0% Insoluble 0.01%
Calcium 0.001% Magnesium 0.001%
Suitability for flame enhancement Pass test

CAS # 10025-84-0 DOT NR NFPA # 1-0-0

46301	100 G
46302	500 G
46303	2.5 KG
46304	10 KG
46305	50 KG
46306	500 KG
46307	1000 KG

LANTHANUM CHLORIDE, SOLUTION, 10% ITEM 1591

Suitable for flame enhancement in Atomic Absorption.

$LaCl_3 \bullet 7H_2O$ F.W. 371.37

Concentration 9.5-10.5% Suitability for flame enhancement Pass test
Sodium 10 ppm

CAS # 10025-84-0 DOT NR NFPA # 1-0-0

46342	500 ML
46343	2.5 L
46341	20 L

Specific Gravity 1.080

LANTHANUM FLUORIDE, 99.9% ITEM 2219

LaF_3 F.W. 195.90

Assay (metals basis) 99.9%

CAS # 13709-38-1 DOT NR

26181	25 G

LANTHANUM HYDROXIDE, 99.95% ITEM 5136

$La(OH)_3$ F.W. 189.93

Assay (metals basis) 99.95% Lanthanum content 71.5-75.0%

CAS # 14507-19-8 DOT NR

12191	50 G
12192	250 G

LANTHANUM NICKELATE

See Lanthanum Nickel Oxide

LANTHANUM NICKEL OXIDE ITEM 5366

Not on the TSCA inventory

$LaNiO_3$ F.W. 245.60

CAS # 12031-18-4 DOT NR

Please Inquire For Sizes

LANTHANUM NITRATE, HEXAHYDRATE, 99.999% — ITEM A4069

$La(NO_3)_3 \bullet 6H_2O$ F.W. 433.03

Assay (metals basis) 99.999% Lanthanum content 30.5-33.5%

CAS # 10277-43-7 DOT 5.1/III NFPA # 1-0-3

46432	25 G
46431	100 G
46433	500 G

LANTHANUM NITRATE, HEXAHYDRATE, 99.99% — ITEM A4068

$La(NO_3)_3 \bullet 6H_2O$ F.W. 433.03

Assay (metals basis) 99.99% min Lanthanum content 30.5-33.5%

CAS # 10277-43-7 DOT 5.1/III NFPA # 1-0-3

46422	25 G
46421	100 G
46423	500 G

LANTHANUM NITRATE, HEXAHYDRATE, 99.9% — ITEM A4065

$La(NO_3)_3 \bullet 6H_2O$ F.W. 433.03

Assay (metals basis) 99.9% min Lanthanum content 30.5-33.5%

CAS # 10277-43-7 DOT 5.1/III NFPA # 1-0-3

46411	100 G
46412	500 G

LANTHANUM NITRATE, HEXAHYDRATE, REAGENT — ITEM 633

$La(NO_3)_3 \bullet 6H_2O$ F.W. 433.03

Lanthanum content 30.5-33.5% Insoluble 0.01%
Calcium 0.001% Magnesium 0.0001%
Suitability for flame enhancement - Pass Test

CAS # 10277-43-7 DOT 5.1/III NFPA # 1-0-3

46401	100 G
46402	500 G
46403	2.5 KG
46404	10 KG
46405	50 KG
46406	1000 KG
46407	5000 KG

LANTHANUM OXALATE, 99.99% — ITEM A4074

$La_2(C_2O_4)_3 \bullet 9H_2O$ F.W. 704.02

Assay (metals basis) 99.99% min

CAS # 6451-21-4 DOT NR

46482	25 G
46481	100 G

LANTHANUM OXIDE, 99.999% — ITEM 3580

La_2O_3 F.W. 325.82

Assay (metals basis) 99.999%

CAS # 1312-81-8 DOT NR

46521	10 G
46522	50 G
46523	250 G

LANTHANUM OXIDE, 99.99% — ITEM 577

La_2O_3 F.W. 325.82

Assay (metals basis) 99.99% min

CAS # 1312-81-8 DOT NR NFPA # 1-0-0

46501	100 G
46502	250 G
46503	500 G
46505	2.5 KG
46504	10 KG
46506	50 KG

LANTHANUM OXIDE, 99.9% — ITEM 3579

La_2O_3 F.W. 325.82

Assay (metals basis) 99.9%

CAS # 1312-81-8 DOT NR

46511	100 G
46512	500 G
46513	2.5 KG

LANTHANUM PERCHLORATE, CRYSTALLINE HYDRATE — ITEM 5139

Approximates trihydrate formulation at the time of packaging; ca 11% water. Packaged in ampules. Reduced-moisture salt for catalyst applications.

$La(ClO_4)_3 \bullet 3H_2O$ F.W. 491.39

Lanthanum content (by EDTA) 27.0-29.7% Insoluble matter 0.01%
Chloride 0.01%

CAS # 14017-46-0 DOT 5.1/II NFPA # 1-0-3

12221	5 G
12222	25 G
12223	100 G

LANTHANUM PERCHLORATE, HYDRATED, REAGENT — ITEM 527

$La(ClO_4)_3 \bullet 6H_2O$ F.W. 545.36

Lanthanum content 24.2-26.5% Insoluble 0.01%
Chloride 0.01%

CAS # 14017-46-0 DOT 5.1/II NFPA # 1-0-3

46601	100 G
46602	500 G
46605	50 KG
46606	100 KG

LANTHANUM PHOSPHATE, 99.99% ITEM A4092

$LaPO_4 \bullet xH_2O$

CAS # 13778-59-1 DOT NR

46701 25 G

LANTHANUM SULFATE, NONAHYDRATE, 99.99% ITEM 5141

$La_2(SO_4)_3 \bullet 9H_2O$ F.W. 728.14

Assay (metals basis) 99.99% Lanthanum content 36.5-40.0%

CAS # 10294-62-9 DOT NR

12261 50 G
12262 250 G

LANTHANUM SULFATE, NONAHYDRATE, 99.9% ITEM 5140

$La_2(SO_4)_3 \bullet 9H_2O$ F.W. 728.14

Assay (metals basis) 99.9% Lanthanum content 36.5-40.0%

CAS # 10294-62-9 DOT NR

12231 100 G
12232 500 G

LANTHANUM TRIFLATE

See Lanthanum Trifluoromethanesulfonate, Hydrated
Lanthanum Trifluoromethanesulfonate, Anhydrous

LANTHANUM TRIFLUOROACETATE ITEM 3478

Not on the TSCA inventory. X hydrate is approximately 3.

$La(OOCCF_3)_3 \bullet XH_2O$ F.W. 477.95

Assay (metals basis) 99.9% Assay (as anhydrous salt) 87.0-92.5%

CAS # 70236-92-9 DOT NR

12271 5 G
12272 25 G

LANTHANUM TRIFLUOROMETHANESULFONATE, ANHYDROUS ITEM 3532

Not on the TSCA inventory

$La(CF_3SO_3)_3$ F.W. 586.12

CAS # 52093-26-2 DOT NR

46781 5 G
46782 25 G

LANTHANUM TRIFLUOROMETHANESULFONATE, HYDRATED ITEM 3533

Approximately 8-9 hydrate. Not on the TSCA inventory.

$La(CF_3SO_3)_3 \bullet xH_2O$ F.W. 586.12+XH2O

CAS # 34629-21-5 DOT NR

46791 5 G
46792 25 G

LAURYL BROMIDE

See 1-Bromododecane, 97%

LEAD, 99.9999%, ZONE REFINED ITEM A4107

Ingot

Pb F.W. 207.19

Assay (metals basis) 99.9999%

CAS # 7439-92-1 DOT NR NFPA # 3-0-0

46821 500 G

LEAD, 99.999% ITEM A4110

Rod - approximately 140 grams per piece

Pb F.W. 207.19

CAS # 7439-92-1 DOT NR NFPA # 3-0-0

46811 1 ROD

LEAD, 99.99% ITEM 691

Pb F.W. 207.19

Assay (metals basis) 99.99% Bismuth 0.002%
Silver 0.5 ppm

CAS # 7439-92-1 DOT NR NFPA # 3-0-0

46801 500 G

LEAD, 10,000 ppm ICP STANDARD SOLUTION ITEM 1757

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22570 100 ML
22572 500 ML

Specific Gravity 1.030

LEAD, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1756

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22560 100 ML
22562 500 ML

Specific Gravity 1.030

LEAD, 1,000 ppm STANDARD SOLUTION — ITEM 750

AA, colorimetric or volumetric standard

Concentration 1,000 ± 10 ug/ml Matrix: <5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

70200 100 ML
70202 500 ML

Specific Gravity 1.030

LEAD ACETATE, TRIHYDRATE, 99.9998% — ITEM A4119

$Pb(C_2H_3O_2)_2 \bullet 3H_2O$ F.W. 379.33

Assay (metals basis) 99.9998% min

CAS # 6080-56-4 DOT 6.1/III NFPA # 3-0-0

46842 10 G
46841 50 G

LEAD ACETATE, TRIHYDRATE, REAGENT (ACS) — ITEM 936

$(CH_3COO)_2Pb \bullet 3H_2O$ F.W. 379.33

Assay 99.0-103.0%
Chloride 0.0005%
Copper 0.002%
Iron 0.001%
Calcium 0.005%
Insoluble 0.01%
Nitrate and nitrite 0.005%
Sodium 0.01%
Potassium 0.005%

CAS # 6080-56-4 DOT 6.1/III NFPA # 3-0-0

46830 100 G
46831 500 G
46832 2.5 KG
46833 10 KG

LEAD ACETATE, 10% SOLUTION — ITEM 2075

For Arsenic by the APHA method using Silver Diethyldithiocarbamate.

$(CH_3COO)_2Pb \bullet 3H_2O$ F.W. 379.33

Concentration 10 ± 0.5%

CAS # 6080-56-4 DOT 6.1/III

24741 500 ML

LEAD BROMIDE, 99.999% — ITEM 1418

$PbBr_2$ F.W. 367.01

Assay (metals basis) 99.999%

CAS # 10031-22-8 DOT 6.1/III NFPA # 3-0-0

46852 5 G
46851 25 G

LEAD CARBONATE, 99.999% — ITEM A4128

$PbCO_3$ F.W. 267.20

Assay (Metals Basis) 99.999%

CAS # 598-63-0 DOT NR NFPA # 3-0-2

46880 5 G
46881 25 G

LEAD CARBONATE, REAGENT (ACS) — ITEM 937

$PbCO_3$ F.W. 267.20

Insoluble in dil. acetic acid 0.02%
Nitrate and nitrite (as NO3) - Pass test
Iron 0.005%
Cadmium 0.002%
Calcium 0.01%
Chloride 0.002%
Sodium 0.05%
Zinc 0.003%
Potassium 0.02%

CAS # 598-63-0 DOT NR NFPA # 3-0-2

46872 100 G
46871 500 G

LEAD CARBONATE, BASIC, REAGENT (ACS) — ITEM 1419

$(PbCO_3)_2Pb(OH)_2$ F.W. 775.60

Insoluble in dilute acetic acid 0.02%
Nitrate and Nitrite (as NO3) Pass test
Calcium 0.01%
Potassium 0.02%
Zinc 0.003%
Chloride 0.002%
Cadmium 0.002%
Iron 0.005%
Sodium 0.05%

CAS # 1319-46-6 DOT NR NFPA # 3-0-2

46903 100 G
46901 500 G
46902 2.5 KG

LEAD CHLORIDE, 99.999% — ITEM 5047

$PbCl_2$ F.W. 278.10

Assay (metals basis) 99.999% min.

CAS # 7758-95-4 DOT 6.1/III NFPA # 3-0-0

87431 5 G
87432 25 G

L

LEAD CHLORIDE, REAGENT — ITEM 1073

$PbCl_2$ F.W. 278.10

Assay 99.0% min.
Nitrate 0.002%
Copper 0.005%
Insoluble matter 0.01%
Sulfate 0.01%
Iron 0.003%

CAS # 7758-95-4 DOT 6.1/III NFPA # 3-0-0

46895	100 G
46891	500 G
46892	2.5 KG
46893	10 KG
46894	50 KG
46896	100 KG

LEAD CHROMATE, REAGENT (ACS) — ITEM 938

$PbCrO_4$ F.W. 323.18

Assay 98.0% min.
Carbon compounds 0.01%
Water soluble salts 0.15%

CAS # 7758-97-6 DOT 9/III NFPA # 3-0-0

46912	100 G
46911	500 G

LEAD DIOXIDE, REAGENT (ACS) — ITEM 939

PbO_2 F.W. 239.19

Assay 97.0% min.
Carbon compounds 0.04%
Nitrate 0.02%
Manganese 0.0005%
Potassium 0.05%
Copper 0.05%
Acid insoluble 0.2%
Chloride 0.002%
Sulfate 0.05%
Sodium 0.1%
Calcium 0.02%

CAS # 1309-60-0 DOT 5.1/III NFPA # 3-0-3

46932	100 G
46931	500 G

LEAD FLUORIDE, 99.999% — ITEM A4149

PbF_2 F.W. 245.18

CAS # 7783-46-2 DOT 9/III

46961	25 G

LEAD FLUORIDE, 99.9% — ITEM 2281

PbF_2 F.W. 245.18

CAS # 7783-46-2 DOT 9/III

46951	100 G

LEAD IODIDE, 99.999% — ITEM 5117

PbI_2 F.W. 461.01

Assay (metals basis) 99.999%

CAS # 10101-63-0 DOT 6.1/III

88071	10 G
88072	25 G
88073	100 G

LEAD IODIDE, 98.5% — ITEM A4164

PbI_2 F.W. 461.01

Assay (metals basis) 99.5% min.

CAS # 10101-63-0 DOT 6.1/III NFPA # 3-0-0

46971	100 G

LEAD MOLYBDATE, 99.97% — ITEM A4173

$PbMoO_4$ F.W. 367.14

CAS # 10190-55-3 DOT NR

46981	25 G

LEAD NITRATE, 99.999% — ITEM A4182

$Pb(NO_3)_2$ F.W. 331.20

Assay (Metals Basis) 99.999%

CAS # 10099-74-8 DOT 5.1/6/II NFPA # 3-0-1

47022	10 G
47021	50 G

LEAD NITRATE, 99.5% — ITEM A4179

$Pb(NO_3)_2$ F.W. 331.20

Assay (metals basis) 99.5% min.

CAS # 10099-74-8 DOT 5.1/6/II NFPA # 3-0-1

47011	500 G

LEAD NITRATE, REAGENT (ACS) — ITEM 607

$Pb(NO_3)_2$ F.W. 331.20

Assay 99.0% min.
Chloride 0.001%
Iron 0.001%
Potassium 0.005%
Insoluble matter 0.005%
Copper 0.002%
Sodium 0.02%
Calcium 0.005%

CAS # 10099-74-8 DOT 5.1/6/II NFPA # 3-0-1

47000	100 G
47001	500 G
47002	2.5 KG
47003	10 KG
47004	50 KG
47005	100 KG
47006	500 KG

L

LEAD OXIDE, 99.999% — ITEM 5048

PbO F.W. 223.19

Assay (metals basis) 99.999% min.

CAS # 1317-36-8 DOT NR NFPA # 2-0-1

87441 10 G
87442 50 G

LEAD OXIDE, 99.99% — ITEM A4189

PbO F.W. 223.19

Assay (metals basis) 99.99% min.

CAS # 1317-36-8 DOT NR NFPA # 2-0-1

47060 100 G
47061 500 G
47062 2.5 KG

LEAD OXIDE (RED), REAGENT — ITEM 1420

Pb_3O_4 F.W. 685.57

Assay 95% min.

CAS # 1314-41-6 DOT NR NFPA # 2-0-1

47071 500 G
47072 2.5 KG

LEAD PERCHLORATE, DEHYDRATED — ITEM 5142

Approximates monohydrate formulation; ca. 4.5% water. Reduced-moisture salt to promote synthetic organic reactions. Bartoli, et al., Eur. J. Org. Chem. (2003), 4611.

$Pb(ClO_4)_2 \bullet H_2O$ F.W. 424.12

Assay (anhydrous basis) 91.0% min.
Iron 0.001%
pH of 5% sol'n 3.0-5.0
Insoluble matter 0.005%
Chloride 0.01%

CAS # 13637-76-8 DOT 5.1/6.1/II NFPA # 3-0-2

Please Inquire For Sizes

LEAD PERCHLORATE, TRIHYDRATE, REAGENT (ACS) — ITEM 49

$Pb(ClO_4)_2 \bullet 3H_2O$ F.W. 460.15

Assay 97.0-102.0%
Iron 0.001%
pH of 5% sol'n 3.0-5.0
Insoluble 0.005%
Chloride 0.01%

CAS # 13453-62-8 DOT 5.1/6/II NFPA # 3-0-2

47107 100 G
47101 500 G
47102 2.5 KG
47103 10 KG
47104 50 KG

LEAD PERCHLORATE, SATURATED SOLUTION, REAGENT — ITEM 50

Saturated at 25C

$Pb(ClO_4)_2$ F.W. 406.10

Chloride 0.01%
pH of 5% solution 3.0-5.0
Suspended particulate matter 0.01%
Sulfate 0.005%
Assay (as PbClO4) 80.0-82.0%

CAS # 13637-76-8 DOT 5.1/6/II NFPA # 3-0-2

47121 5 KG

Specific Gravity 2.700

LEAD PERCHLORATE SOLUTION, 0.1 M — ITEM 2076

Lead Activity Standard ISE

$Pb(ClO_4)_2$ F.W. 406.10

Concentration 0.100 ± 0.001 M

CAS # 13637-76-8 DOT 5.1/6/III

24751 500 ML
24752 6 X 500 ML

Specific Gravity 1.033

LEAD SUBACETATE, REAGENT (ACS) — ITEM 692

For sugar analysis

Basic lead (PbO) 33.0% min.
Insoluble in dil. acetic acid 0.02%
Chloride 0.003%
Copper 0.002%
Iron 0.002%
Calcium 0.01%
Loss on drying at 105C. 1.5%
Insoluble in water 1.0%
Nitrate 0.003%
Sodium 0.05%
Potassium 0.02%

CAS # 1335-32-6 DOT 6.1/III NFPA # 3-0-1

47200 100 G
47201 500 G
47202 2.5 KG
47203 10 KG
47204 50 KG

LEAD SULFATE, 99.999% — ITEM A4209

$PbSO_4$ F.W. 303.25

Assay (Metals Basis) 99.999% min

CAS # 7446-14-2 DOT 9/III NFPA # 3-0-0

47262 10 G
47261 50 G

LEAD SULFATE, REAGENT — ITEM 1166

$PbSO_4$ F.W. 303.25

Assay 99% min.
Nitrate 0.01%
Chloride 0.002%
Iron 0.001%

CAS # 7446-14-2 DOT 9/III NFPA # 3-0-0

47250 100 G
47251 500 G
47252 2.5 KG

L

LEAD THIOCYANATE, 99.5% — ITEM A4230

$Pb(SCN)_2$ F.W. 323.37

Assay (metals basis) 99.5% min.

CAS # 592-87-0 DOT 9/III

47301 100 G
47302 500 G

LEAD TITANATE, 99.9% — ITEM 1428

-325 mesh

$PbTiO_3$ F.W. 303.08

Assay (Metals Basis) 99.9% min

CAS # 12060-00-3 DOT NR

47341 25 G

LEAD VANADATE, 99.9% — ITEM 1430

-200 mesh

$Pb(VO_3)_2$ F.W. 405.08

CAS # 10099-79-3 DOT NR

47361 10 G

LEAF ALCOHOL

See cis-3-Hexen-1-ol, 98%

LIGROIN

See Petroleum Ether

LIMESTONE SAMPLES

See Standard Limestone Samples

LITHIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1759

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22590 100 ML
22592 500 ML

Specific Gravity 1.030

LITHIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1758

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22580 100 ML
22582 500 ML

Specific Gravity 1.030

LITHIUM, 1,000 ppm STANDARD SOLUTION — ITEM 751

AA, colorimetric or volumetric standard

Concentration 1,000 ± 10 ug/ml Matrix: <1% Hydrochloric acid
NIST Traceable

DOT NR NFPA # 1-0-0

70210 100 ML
70212 500 ML

Specific Gravity 1.020

LITHIUM ACETATE, DIHYDRATE, REAGENT — ITEM 303

$LiC_2H_3O_2 \bullet 2H_2O$ F.W. 102.01

Sulfate 0.005%
Heavy Metals (Pb) 0.001%
Insoluble 0.005%
Iron 0.001%
pH of 5% solution 5.0-8.0
Chloride 0.002%

CAS # 6108-17-4 DOT NR NFPA # 2-0-0

47405 100 G
47401 500 G
47402 2.5 KG
47403 10 KG
47404 50 KG

LITHIUM ALUMINUM HYDRIDE, POWDER, 95% — ITEM 2576

Air and moisture sensitive. Organic reducing agent.

$LiAlH_4$ F.W. 37.95

Assay 95% min.

CAS # 16853-85-3 DOT 4.3/I NFPA # 3-2-2

47433 1 KG
47434 5 KG

LITHIUM ALUMINUM HYDRIDE, TABLET, 95% — ITEM 2638

Air and moisture sensitive. Organic reducing agent.

$LiAlH_4$ F.W. 37.95

Assay 95% min.

CAS # 16853-85-3 DOT 4.3/I NFPA # 3-2-2

47443 1 KG
47444 5 KG

LITHIUM BENZOATE, REAGENT — ITEM 608

C_6H_5COOLi F.W. 128.06

Assay 99%
Chloride 0.01%
Iron 0.01%
Sodium 0.05%
Insoluble 0.005%
Sulfate 0.02%
Heavy metals (as lead) 0.002%
Potassium 0.05%

CAS # 553-54-8 DOT NR

47503	100 G
47501	500 G
47502	2.5 KG

LITHIUM BORATE

See Lithium Metaborate, Anhydrous
Lithium Tetraborate, 99.9%

LITHIUM BROMIDE, 99.999% — ITEM 5035

LiBr F.W. 86.84

Assay (metals basis) 99.999% min.

CAS # 7550-35-8 DOT NR NFPA # 2-0-0

87311	10 G
87312	50 G

LITHIUM BROMIDE, REAGENT — ITEM 1227

LiBr F.W. 86.84

Insoluble 0.01%
Heavy Metals 0.005%
Chloride 0.2%
Iron 0.002%

CAS # 7550-35-8 DOT NR NFPA # 2-0-0

47555	100 G
47551	500 G
47552	2.5 KG
47553	10 KG

LITHIUM CARBONATE, 99.999% — ITEM 5034

Li_2CO_3 F.W. 73.89

Assay (metals basis) 99.999% min.

CAS # 554-13-2 DOT NR NFPA # 2-0-0

87301	10 G
87302	50 G
87303	250 G

LITHIUM CARBONATE, 99.99% — ITEM A4305

Li_2CO_3 F.W. 73.89

Assay 99.99%min. (metals basis)

CAS # 554-13-2 DOT NR NFPA # 2-0-0

47611	25 G
47613	250 G

LITHIUM CARBONATE, HIGH PURITY, OPTICAL GRADE — ITEM 2297

Li_2CO_3 F.W. 73.89

Assay(Metals) 99.99%
On 70 mesh - report
On 140 mesh - report
On 325 mesh - report
Loss on Ignition(500C) Report
On 100 mesh - report
On 200 mesh - report

Al 5 ppm
Ca 10 ppm
Cr 2 ppm
Ga 2 ppm
Mg 2 ppm
Na 5 ppm
Pb 2 ppm
Sc 2 ppm
Sr 10 ppm
Zn 2 ppm
Ba 10 ppm
Cd 10 ppm
Cu 2 ppm
In 2 ppm
Mn 2 ppm
Ni 2 ppm
S 10 ppm
Si 5 ppm
Ti 2 ppm
Bi 5 ppm
Co 2 ppm
Fe 2 ppm
K 2 ppm
Mo 10 ppm
P 10 ppm
Sb 5 ppm
Sn 5 ppm
V 2 ppm

CAS # 554-13-2 DOT NR NFPA # 2-0-0

47590	100 G
47591	500 G
47592	2.5 KG
47594	10 KG
47596	50 KG
47597	100 KG
47598	1,000 KG
47599	5,000 KG

LITHIUM CARBONATE, REAGENT (ACS) — ITEM 609

Li_2CO_3 F.W. 73.89

Assay 99.0%
Chloride 0.005%
Sulfur compounds (as SO4) 0.2%
Iron 0.002%
Potassium 0.01%
Insoluble in dilute HCl 0.01%
Nitrate 0.0005%
Heavy Metals (by ICP-OES) 0.002%
Calcium 0.01%
Sodium 0.1%

CAS # 554-13-2 DOT NR NFPA # 2-0-0

47605	100 G
47601	500 G
47602	2.5 KG
47603	10 KG
47604	50 KG

LITHIUM CHLORIDE, 99.998% — ITEM 5036

LiCl F.W. 42.39

Assay (metals basis) 99.998% min. Water 1.0%

CAS # 7447-41-8 DOT NR NFPA # 1-0-0

87321	5 G
87322	25 G
87323	100 G

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LITHIUM CHLORIDE, REAGENT (ACS) ITEM 308

$LiCl$ F.W. 42.39

Assay 99% min.
Titrable base 0.008 meq/g
Sulfate 0.01%
Calcium 0.01%
Sodium 0.20%
Heavy Metals (by ICP-OES) 0.002%
Insoluble 0.01%
Loss on drying at 105C 1.0%
Barium 0.003%
Potassium 0.01%
Iron 0.001%

CAS # 7447-41-8 DOT NR NFPA # 1-0-0

47706	100 G
47701	500 G
47702	2.5 KG
47703	10 KG
47704	50 KG
47705	136 KG
47707	544 KG

LITHIUM CHROMATE, REAGENT ITEM 307

$Li_2CrO_4 \bullet 2H_2O$ F.W. 165.92

Insoluble 0.01%
Sulfate 0.005%
Chloride 0.01%
Iron 0.002%

CAS # 7789-01-7 DOT 9/III NFPA # 3-0-2

47800	100 G
47801	500 G
47802	2.5 KG
47803	10 KG
47804	50 KG

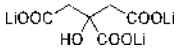
LITHIUM CITRATE, REAGENT ITEM 1432

$Li_3C_6H_5O_7 \bullet 4H_2O$ F.W. 281.99

Insoluble 0.005%
Sulfate 0.005%
Iron 0.0005%
Chloride 0.01%
Calcium 0.01%
Heavy Metals 0.0005%

CAS # 6080-58-6 DOT NR NFPA # 2-0-0

47813	100 G
47811	500 G
47812	2.5 KG



LITHIUM COBALTITE ITEM A4323

$LiCoO_2$ F.W. 97.88

Assay (metals basis) 99.8% min.
Cobalt content (Complexometric) 57.2 - 63.2%

CAS # 12190-79-3 DOT NR

Please Inquire For Sizes

LITHIUM FLUORIDE ITEM A4341

LiF F.W. 25.94

Assay 99%

CAS # 7789-24-4 DOT 6.1/III NFPA # 3-0-0

47841	500 G

LITHIUM FORMATE, REAGENT ITEM 1433

$LiOOCH \bullet H_2O$ F.W. 69.98

Assay 98% min.
Chloride 0.01%
Heavy metals (as Pb) 0.0005%
Insoluble 0.005%
Sulfate 0.005%
Iron 0.0005%

CAS # 6108-23-2 DOT NR

47832	100 G
47831	500 G

LITHIUM HEXAFLUOROPHOSPHATE, 99% ITEM 2534

$LiPF_6$ F.W. 151.90

Assay 99% min.

CAS # 21324-40-3 DOT 8/III

47871	10 G
47872	50 G

LITHIUM HEXAFLUOROTITANATE, 99.5% ITEM A4359

Li_2TiF_6 F.W. 175.75

Assay (metals basis) 99.5% min.

CAS # 19193-50-1 DOT 6.1/II

47881	10 G

LITHIUM HYDROXIDE, ANHYDROUS, REAGENT ITEM 3121

$LiOH$ F.W. 23.94

Assay 96.0% min
Insoluble 0.01%
Iron 0.002%
Lithium carbonate 3.0%
Chloride 0.01%
Heavy metals (as Pb) 0.002%

CAS # 1310-65-2 DOT 8/II

47915	100 G
47911	500 G
47912	2.5 KG
47913	10 KG
47914	50 KG

LITHIUM HYDROXIDE, MONOHYDRATE, REAGENT (ACS) ITEM 312

$LiOH•H_2O$ F.W. 41.96

Assay 98.0% min.
Insoluble 0.01%
Sulfate 0.05%
Heavy metals (as Pb) 0.002%
Lithium carbonate 2.0%
Chloride 0.01%
Iron 0.002%

CAS # 1310-66-3 DOT 8/II NFPA # 3-0-2

47901	500 G
47902	2.5 KG
47903	10 KG
47904	50 KG

LITHIUM HYDROXIDE, MONOHYDRATE ITEM 3651

$LiOH•H_2O$ F.W. 41.96

Assay 98%

CAS # 1310-66-3 DOT 8/II NFPA # 3-0-2

47921	100 G
47922	500 G
47923	2.5 KG

LITHIUM IODATE, REAGENT ITEM 395

Variable degree of hydration between 0 and 1.

$LiIO_3$ F.W. 181.85

Assay (as LiIO3) 91% min.
Other Halogens (Cl) 0.01%
Iron 0.002%
Insoluble 0.01%
Sulate 0.005%

CAS # 13765-03-2 DOT 5.1/II

48001	100 G
48002	500 G
48003	2.5 KG

LITHIUM IODIDE, ANHYDROUS ITEM 2595

LiI F.W. 133.84

Assay 99% min.
Chloride 100 ppm
Bromide 100 ppm
pH (10% solution) 5.2-8.8
Water 0.5%
Free iodine + LiI3 0.5%
LiOH 0.05%
Insoluble (non-aqueous) 0.005%

Fe 50 ppm
Ca 50 ppm
Cu 20 ppm
Na 50 ppm
Mg 20 ppm
Ni 20 ppm
K 20 ppm
Al 20 ppm
Zn 20 ppm

CAS # 10377-51-2 DOT NR NFPA # 2-0-0

48031	10 G
48032	50 G
48033	250 G
48034	1 KG
48036	500 KG
48037	1,000 KG

LITHIUM IODIDE, REAGENT ITEM 940

$LiI•3H_2O$ F.W. 187.89

pH of 5% solution 5.5-8.5
Heavy metals (as Pb) 0.0005%
Insoluble 0.005%
Appearance - white to yellow
Sulfate 0.005%
Iron 0.0005%
Other halogens (as Cl) 0.01%

CAS # 7790-22-9 DOT NR NFPA # 2-0-0

48021	100 G
48022	500 G

LITHIUM LACTATE, REAGENT ITEM 347

$LiO_2CCHOHCH_3$ F.W. 96.01

Assay 95%
Chloride 0.01%
Iron 0.001%
Insoluble 0.01%
Sulfate 0.01%
Heavy Metals (Pb) 0.002%

CAS # 867-55-0 DOT NR NFPA # 2-0-0

48101	100 G
48102	500 G
48103	2.5 KG

LITHIUM METABORATE, ANHYDROUS, BIO-REFINED™ ITEM 1915

$LiBO_2$ F.W. 49.76

Assay 99% min.
Loss on drying @150 deg.C <1.0%
Chloride (Cl) 0.005%
pH (.01M in water @ 20 deg.C) 9.0-11.0
Insoluble matter 0.005%
Sulfate (SO4) 0.005%

Al 5 ppm
Bi 5 ppm
Co 5 ppm
Fe 5 ppm
Mn 5 ppm
Ni 5 ppm
Zn 5 ppm
As 0.1 ppm
Ca 10 ppm
Cr 5 ppm
K 50 ppm
Mo 5 ppm
Pb 5 ppm
Ba 5 ppm
Cd 5 ppm
Cu 5 ppm
Mg 5 ppm
Na 50 ppm
Sr 5 ppm

CAS # 13453-69-5 DOT NR NFPA # 2-0-1

48212	20 G
48211	100 G

LITHIUM METABORATE, ANHYDROUS, REAGENT (ACS) ITEM 610

$LiBO_2$ F.W. 49.76

Assay 98.0-102.0%
Phosphorus compounds (as PO4) 0.004%
Sodium 0.005%
Silicon 0.01%
Aluminum 0.001%
Heavy metals (as Pb) 0.001%
Bulk density 0.25 g/ml min
Loss on fusion 2.0%
Calcium 0.01%
Potassium 0.005%
Iron 0.002%
Magnesium 0.0005%
Insoluble 0.01%

CAS # 13453-69-5 DOT NR NFPA # 2-0-1

48226	25 G
48221	100 G
48222	500 G
48223	2.5 KG
48224	10 KG

L

LITHIUM METABORATE, ANHYDROUS, REAGENT — ITEM 304

White powder that may contain black insolubles as a result of the firing process used.

$LiBO_2$ F.W. 49.76

Insoluble 0.05%
Sulfate 0.005%
Heavy metals (as Pb) 0.002%
Loss on fusion 2.0%
Iron 0.002%

CAS # 13453-69-5 DOT NR NFPA # 2-0-1

48201	100 G
48202	500 G
48203	2.5 KG
48204	10 KG

LITHIUM MOLYBDATE, 99.5% — ITEM 1434

Li_2MoO_4 F.W. 173.82

CAS # 13568-40-6 DOT NR

48261	100 G

LITHIUM NIOBATE, 99.99% — ITEM 3672

$LiNbO_3$ F.W. 147.84

Assay (metals basis) 99.99%

CAS # 12031-63-9 DOT NR

48271	10 G
48272	50 G

LITHIUM NITRATE, 99.999% — ITEM A4413

$LiNO_3$ F.W. 68.95

Assay (metals basis) 99.999%
Assay (indirect acid/base titration) 99%
Water 1%

CAS # 7790-69-4 DOT 5.1/III NFPA # 1-0-1

48312	5 G
48311	25 G

LITHIUM NITRATE, TRACE METAL GRADE — ITEM 1916

$LiNO_3$ F.W. 68.95

Assay 99.5% min.
Insoluble matter 0.005%
Sulfate (SO4) 0.005%
Water <1.0%
Chloride (Cl) 0.005%

Al 50 ppm
Bi 5 ppm
Co 5 ppm
Fe 5 ppm
Mn 5 ppm
Ni 5 ppm
Zn 5 ppm
As 0.1 ppm
Ca 500 ppm
Cr 5 ppm
K 50 ppm
Mo 5 ppm
Pb 5 ppm
Ba 50 ppm
Cd 5 ppm
Cu 5 ppm
Mg 5 ppm
Na 100 ppm
Sr 5 ppm

CAS # 7790-69-4 DOT 5.1/III NFPA # 1-0-1

48322	100 G
48321	500 G

LITHIUM NITRATE, REAGENT — ITEM 611

$LiNO_3$ F.W. 68.95

Assay 99.0%
Chloride 0.002%
Iron 0.0005%
Water 1.0%
Insoluble 0.005%
Sulfate 0.01%
Heavy Metals (as Pb) 0.0005%

CAS # 7790-69-4 DOT 5.1/III NFPA # 1-0-1

48300	100 G
48301	500 G
48302	2.5 KG
48303	10 KG
48304	50 KG
48305	500 KG
48306	1000 KG

LITHIUM PERCHLORATE, BATTERY GRADE — ITEM 233

Extra dry for lithium battery. Minimum order may apply.

$LiClO_4$ F.W. 106.40

Moisture - at time of packing 150 ppm
Insoluble matter 0.005%
Sulfate 0.001%
Heavy metals 0.0005%
Calcium - report
Sodium - report
Zinc - report
Assay 99.0%
Chloride 0.003%
Iron 0.0005%
pH of 5% solution 6.0-7.5
Potassium - report
Lead - report

CAS # 7791-03-9 DOT 5.1/II NFPA # 2-0-3

48408	500 KG
48409	1,000 KG
48410	5,000 KG

LITHIUM PERCHLORATE, ANHYDROUS, BIO-REFINED™ — ITEM 1917

$LiClO_4$ F.W. 106.40

Assay 99% min.
Water <2.0%
Chloride (Cl) 0.005%
Optical absorbance (1 M aqueous) @ 260 nm <0.037
pH (1M in water @20 deg. C) 6.0-7.5
Insoluble matter 0.005%
Sulfate (SO4) 0.005%
Optical absorbance (1 M aqueous) @ 280 nm <0.032

Al 5 ppm
Bi 5 ppm
Co 5 ppm
Fe 5 ppm
Mn 5 ppm
Ni 5 ppm
Zn 5 ppm
As 0.1 ppm
Ca 10 ppm
Cr 5 ppm
K 50 ppm
Mo 5 ppm
Pb 5 ppm
Ba 5 ppm
Cd 5 ppm
Cu 5 ppm
Mg 5 ppm
Na 50 ppm
Sr 5 ppm

CAS # 7791-03-9 DOT 5.1/II

48392	25 G
48391	100 G

LITHIUM PERCHLORATE, ANHYDROUS, SPECIAL REAGENT (ACS) ITEM 2574

Dried to 500 ppm maximum water content

$LiClO_4$

Assay 95% min.
Chloride 0.003%
Iron 0.0005%
pH of 5% solution 6.0-7.5
Insoluble 0.005%
Sulfate 0.001%
Heavy metals (as Pb) 0.0005%
Water 500 ppm

CAS # 7791-03-9 DOT 5.1/II NFPA # 2-0-3

50371	100 G
50372	500 G
50375	5 KG

LITHIUM PERCHLORATE, ANHYDROUS, REAGENT (ACS) ITEM 221

$LiClO_4$ F.W. 106.40

Assay 95.0% min
Chloride 0.003%
Iron 0.0005%
pH of 5% solution 6.0-7.5
Insoluble 0.005%
Sulfate 0.001%
Heavy metals (as Pb) 0.0005%
Water (KF) Report

CAS # 7791-03-9 DOT 5.1/II NFPA # 2-0-3

48400	100 G
48401	500 G
48402	2.5 KG
48403	10 KG
48404	50 KG
48405	100 KG
48386	500 KG
48387	1,000 KG
48388	5,000 KG

LITHIUM PERCHLORATE, TRIHYDRATE, (ACS) REAGENT ITEM 53

$LiClO_4 \bullet 3H_2O$ F.W. 160.45

Assay (anhydrous basis) 63.0-68.0%
Chloride 0.003%
Iron 0.0005%
pH of 5% solution 6.0-7.5
Insoluble 0.005%
Sulfate 0.001%
Heavy metals (as Pb) 0.0005%

CAS # 13453-78-6 DOT 5.1/II NFPA # 2-0-3

48420	100 G
48421	500 G
48422	2.5 KG
48423	10 KG
48424	50 KG
48426	500 KG
48427	1,000 KG
48428	5,000 KG

LITHIUM PERIODATE, REAGENT ITEM 315

LiH_4IO_6 F.W. 233.89

Insoluble 0.01%
Iron 0.001%
Other Halogens 0.05%

CAS # 21111-84-2 DOT 5.1/II

48502	100 G
48501	500 G

LITHIUM PHOSPHATE, MONOBASIC ITEM 1687

LiH_2PO_4 F.W. 103.93

Assay 98.0% min
Insoluble 0.01%
Nitrogen compounds 0.001%
Heavy metals (Pb) 0.001%
Water (LOD @ 105C) 2.0% max.
pH of 5% solution 4.0-5.0 @ 25 C
Chloride 0.0005%
Sulfate 0.005%
Iron 0.001%

CAS # 13453-80-0 DOT NR

48412	100 G
48411	500 G
48415	25 KG
48416	1,000 KG
48417	5,000 KG

LITHIUM PHOSPHATE, TRIBASIC ITEM 2972

Assay approximately 98% by mass balance

Li_3PO_4 F.W. 115.79

Assay about 98%

CAS # 10377-52-3 DOT NR

48331	100 G
48332	500 G
48335	50 KG
48336	100 KG
48337	500 KG
48338	1000 KG

LITHIUM SILICATE, 99.5% ITEM 1438

Lithium metasilicate

Li_2SiO_3 F.W. 89.97

Assay (metals basis) 99.5% min

CAS # 10102-24-6 DOT NR

48542	50 G
48541	250 G

LITHIUM SULFATE, ANHYDROUS ITEM 6121

Li_2SO_4 F.W. 109.93

Assay 99.0% min.
Insoluble matter 0.01%
Nitrate 0.001%
Heavy metals 0.001%
Sodium 0.05%
Loss on drying 1.0% max.
Chloride 0.01%
Iron 0.001%
Potassium 0.05%

CAS # 10377-48-7 DOT NR NFPA # 2-0-0

48482	100 G
48481	500 G

L

LITHIUM SULFATE, MONOHYDRATE, BIO-REFINED™ ITEM 1918

$Li_2SO_4 \bullet H_2O$ F.W. 127.95

Assay 99.0% min.
Insoluble matter 0.005%
Optical absorbance (1 M aqueous) @ 260 nm <0.100

pH (1M in water @20 deg.C) 5.0-7.0
Chloride (Cl) 0.005%
Optical absorbance (1 M aqueous) @ 280 nm <0.085

Al 5 ppm	As 0.1 ppm	Ba 5 ppm
Ca 10 ppm	Cd 5 ppm	Co 5 ppm
Cr 5 ppm	Cu 5 ppm	Fe 5 ppm
K 50 ppm	Mg 5 ppm	Mn 5 ppm
Mo 5 ppm	Na 50 ppm	Ni 5 ppm
Pb 5 ppm	Sr 5 ppm	Zn 5 ppm

CAS # 10102-25-7 DOT NR

48632	100 G
48631	500 G

LITHIUM SULFATE, MONOHYDRATE, REAGENT (ACS) ITEM 612

$Li_2SO_4 \bullet H_2O$ F.W. 127.95

Assay (dried basis) 99.0% min.
Insoluble 0.01%
Nitrate 0.001%
Heavy metals (Pb) 0.001%
Sodium 0.05%

Loss on drying @ 150 C 13.0-15.0%
Chloride 0.002%
Iron 0.001%
Potassium 0.05%

CAS # 10102-25-7 DOT NR NFPA # 2-0-0

48606	100 G
48601	500 G
48602	2.5 KG
48603	10 KG
48604	50 KG

LITHIUM TANTALATE, 99.9% ITEM A4464

Lithium Metatantalate

$LiTaO_3$ F.W. 235.89

CAS # 12031-66-2 DOT NR

48611	25 G

LITHIUM TETRABORATE, 99.9% ITEM 819

For use as a Spectroscopic Flux.

$Li_2B_4O_7$ F.W. 169.12

Assay (metals basis) 99.9% min.

CAS # 12007-60-2 DOT NR

48461	100 G
48462	500 G
48463	2.5 KG

LITHIUM THIOCYANATE ITEM 1442

Degree of hydration is typically 1-2 moles water.

$LiSCN \bullet xH_2O$ F.W. 65.02 + XH_2O

Assay (as LiSCN) 65% min. Water content (by KF titration) 35% max.

CAS # 556-65-0 DOT NR

48583	25 G
48581	100 G
48582	500 G

LITHIUM TITANATE, 99% ITEM 1443

Li_2TiO_3 F.W. 109.76

Assay (Metals Basis) 99% min

CAS # 12031-82-2 DOT NR NFPA # 1-0-0

48493	100 G
48491	500 G
48492	2.5 KG

LITHIUM TRIFLATE

See Lithium Trifluoromethanesulfonate

LITHIUM TRIFLUOROMETHANESULFONATE ITEM 2533

Lithium triflate

CF_3SO_3Li F.W. 156.01

Assay 96%

CAS # 33454-82-9 DOT NR NFPA # 1-0-0

48471	10 G
48472	50 G

LITHIUM VANADATE, 98% ITEM 1444

$LiVO_3$ F.W. 105.88

Assay 98%

CAS # 15060-59-0 DOT 6.1/II NFPA # 3-0-0

Please Inquire For Sizes

LIVER OF SULFUR

See Sulfurated Potash

LUTETIUM, 10,000 ppm ICP STANDARD SOLUTION ITEM 1761

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22610	100 ML
22612	500 ML

Specific Gravity 1.030

LUTETIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1760

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22600 100 ML
22602 500 ML

Specific Gravity 1.030

LUTETIUM ACETYLACETONATE — ITEM 5143

Not on the TSCA inventory. For R&D use only.

$Lu(C_5H_7O_2)_3 \bullet XH_2O$ F.W. 472.30 (ANHYD.)

CAS # 86322-74-9 DOT NR

12291 1 G
12292 5 G

LUTETIUM CARBONATE, 99.9% — ITEM A4518

$Lu_2(CO_3)_3 \bullet xH_2O$

CAS # 5895-53-4 DOT NR

48661 1 G
48662 5 G

LUTETIUM CHLORIDE, 99.9%, ANHYDROUS — ITEM 5144

$LuCl_3$ F.W. 281.33

Assay (metals basis) 99.9% Lutetium content 59.0-67.0%

CAS # 10099-66-8 DOT NR

12301 1 G
12302 5 G

LUTETIUM CHLORIDE, 99.9%, HEXAHYDRATE — ITEM A4521

$LuCl_3 \bullet 6H_2O$ F.W. 389.42

Assay (Metals basis) 99.9% Lutetium content (by EDTA titration) 43.8-46.0%

CAS # 15230-79-2 DOT NR

48671 1 G
48672 5 G

LUTETIUM FLUORIDE, 99.9%, ANHYDROUS — ITEM A4527

LuF_3 F.W. 231.96

CAS # 13760-81-1 DOT NR

48681 1 G
48682 5 G

LUTETIUM NITRATE, 99.99%, HEXAHYDRATE — ITEM A4539

$Lu(NO_3)_3 \bullet 6H_2O$ F.W. 469.08

Assay (metals basis) 99.99% Lutetium content 35.5-39.0%

CAS # 36549-50-5 DOT 5.1/III

48691 1 G
48692 5 G

LUTETIUM NITRATE, 99.9% HEXAHYDRATE — ITEM 5145

$Lu(NO_3)_3 \bullet 6H_2O$ F.W. 469.08

Assay (metals basis) 99.9% Lutetium content 35.5-39.0%

CAS # 36549-50-5 DOT 5.1/III

12311 1 G
12312 5 G

LUTETIUM OXIDE, 99.99% — ITEM 2220

Lu_2O_3 F.W. 397.94

Assay (Metals basis) 99.99%

CAS # 12032-20-1 DOT NR

26191 1 G

LUTETIUM OXIDE, 99.9% — ITEM 638

Lu_2O_3 F.W. 397.94

Assay (metals basis) 99.9% min.

CAS # 12032-20-1 DOT NR

48703 1 G
48701 5 G
48702 10 G

LUTETIUM PERCHLORATE, HYDRATED, 50% SOLUTION — ITEM 639

$Lu(ClO_4)_3 \bullet 6H_2O$ F.W. 581.42

Lutetium content 14.4-15.6% Insoluble 0.01%
Chloride 0.01%

CAS # 14646-29-8 DOT NR

48741 20 G
48742 50 G

LUTETIUM SULFATE, 99.9%, HYDRATED, REAGENT — ITEM 1256

$Lu_2(SO_4)_3 \bullet 8H_2O$ F.W. 782.26

Assay (metals basis) 99.9% min Lutetium content 43.8 - 45.6%

CAS # 14986-89-1 DOT NR

48722 1 G
48721 5 G

L

LUTETIUM TRIFLATE

See Lutetium Trifluoromethanesulfonate, 97%

LUTETIUM TRIFLUOROMETHANESULFONATE, 97% ITEM 3534

Not on the TSCA inventory

$Lu(CF_3SO_3)_3$ F.W. 622.18

Assay 97% min.

CAS # 126857-69-0

48731 1 G
48732 5 G

3,4-LUTIDINE

See 3,4-Dimethylpyridine

MAGNESIUM, METAL TURNINGS, REAGENT ITEM 1167

Mg F.W. 24.30

Assay 99.5% min. Suitablity for Grignard-pass test

CAS # 7439-95-4 DOT 4.1/III NFPA # 0-2-2

48751 500 G
48752 2.5 KG

MAGNESIUM, 10,000 ppm ICP STANDARD SOLUTION ITEM 1763

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22630 100 ML
22632 500 ML

Specific Gravity 1.030

MAGNESIUM, 1,000 ppm ICP STANDARD SOLUTION ITEM 1762

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22620 100 ML
22622 500 ML

Specific Gravity 1.030

MAGNESIUM, 1,000 ppm STANDARD SOLUTION ITEM 752

AA, colorimetric or volumetric standard

Concentration 1,000 ± 10 ug/ml Matrix: <5% Hydrochloric acid
NIST Traceable

DOT NR NFPA # 2-0-1

70220 100 ML
70222 500 ML

Specific Gravity 1.020

MAGNESIUM ACETATE, TETRAHYDRATE, REAGENT (ACS) ITEM 941

$Mg(C_2H_3O_2)_2 \bullet 4H_2O$ F.W. 214.46

Assay 98.0-102.0%
Chloride 0.001%
Calcium 0.01%
Strontium 0.005%
Iron 0.0005%
Potassium 0.005%
Insoluble 0.005%
Sulfate 0.005%
Barium 0.001%
Heavy Metals 0.0005%
Manganese 0.001%
Sodium 0.005%

CAS # 16674-78-5 DOT NR NFPA # 1-0-0

48765 100 G
48761 500 G
48762 2.5 KG

MAGNESIUM ACETYLACETONATE, 98% ITEM A4581

$Mg(C_5H_7O_2)_2 \bullet 2H_2O$ F.W. 258.56

CAS # 14024-56-7 DOT NR

48771 100 G

MAGNESIUM BROMIDE, 98% ITEM 1447

$MgBr_2$ F.W. 184.11

Assay 98%

CAS # 7789-48-2 DOT NR NFPA # 1-0-0

48822 10 G
48821 50 G

MAGNESIUM CHLORIDE, 98% ANHYDROUS ITEM A4602

$MgCl_2$ F.W. 95.21

Assay 98% min.

CAS # 7786-30-3 DOT NR

48811 500 G
48812 2.5 KG
48813 10 KG
48814 50 KG

L

MAGNESIUM CHLORIDE, HEXAHYDRATE, 99.999% — ITEM 5037

$MgCl_2 \bullet 6H_2O$ F.W. 203.30

Assay (metals basis) 99.999% min.

CAS # 7791-18-6 DOT NR NFPA # 1-0-0

87331	5 G
87332	25 G
87333	100 G

MAGNESIUM CHLORIDE, HEXAHYDRATE, BIO-REFINED™ — ITEM 1919

$MgCl \bullet 6H_2O$ F.W. 203.30

Assay 99% min.
Insoluble matter 0.005%
Optical absorbance (1 M in water) @ 260 nm 0.030
pH (1 M in water @ 20 C) 5.0 - 7.0
Sulfate (SO4) 0.005%
Optical absorbance (1 M in water) @ 280 nm 0.025

Al 5 ppm
Bi 5 ppm
Co 5 ppm
Fe 2 ppm
Mn 5 ppm
Ni 5 ppm
Zn 5 ppm
As 0.1 ppm
Ca 50 ppm
Cr 5 ppm
K 50 ppm
Mo 5 ppm
Pb 5 ppm
Ba 5 ppm
Cd 5 ppm
Cu 5 ppm
Li 5 ppm
Na 50 ppm
Sr 5 ppm

CAS # 7791-18-6 DOT NR NFPA # 1-0-0

48831	500 G

MAGNESIUM CHLORIDE, HEXAHYDRATE, REAGENT (ACS) — ITEM 724

$MgCl_2 \bullet 6H_2O$ F.W. 203.30

Assay 99.0-102.0%
Ammonium 0.002%
Phosphate 0.0005%
Heavy Metals (by ICP-OES) 0.0005%
Calcium 0.01%
Sodium 0.005%
Iron 0.0005%
Insoluble 0.005%
Nitrate 0.001%
Sulfate 0.002%
Barium 0.005%
Strontium 0.005%
Potassium 0.005%
Manganese 0.0005%

CAS # 7791-18-6 DOT NR NFPA # 1-0-0

48806	100 G
48801	500 G
48802	2.5 KG
48803	10 KG
48804	50 KG
48805	100 KG
48807	500 KG

MAGNESIUM CHLORIDE, HEXAHYDRATE — ITEM 3657

$MgCl_2 \bullet 6H_2O$ F.W. 203.30

Assay 98% min.

CAS # 7791-18-6 DOT NR NFPA # 1-0-0

48861	100 G
48862	500 G
48863	2.5 KG

MAGNESIUM CHLORIDE, MONOHYDRATE, REAGENT — ITEM 2553

Meets ACS Specifications for hexahydrate material (except assay).

$MgCl_2 \bullet H_2O$ F.W. 113.23

Assay 98.0% min.
Ammonium 0.002%
Phosphate 0.0005%
Heavy Metals (by ICP-OES) 0.0005%
Calcium 0.01%
Sodium 0.005%
Iron 0.0005%
Insoluble 0.005%
Nitrate 0.001%
Sulfate 0.002%
Barium 0.005%
Strontium 0.005%
Potassium 0.005%
Manganese 0.0005%

CAS # 22756-14-5 DOT NR NFPA # 1-0-0

48841	100 G
48842	500 G
48843	2.5 KG

MAGNESIUM FLUORIDE, 99.9% — ITEM 3471

Nominally 60-200 mesh powder.

MgF_2 F.W. 62.30

Assay (metals basis) 99.9%

CAS # 7783-40-6 DOT 6.1/III

10020	25 G

MAGNESIUM FLUORIDE, 99.9% — ITEM A4623

Granular crystals.

MgF_2 F.W. 62.30

CAS # 7783-40-6 DOT 6.1/III

48851	25 G

MAGNESIUM FLUOROSILICATE

See Magnesium Hexafluorosilicate, 99%

MAGNESIUM GLUCONATE HYDRATE — ITEM 5274

Granular. Degree of hydration 1-3.

$MgC_{12}H_{22}O_{14} \bullet XH_2O$ F.W. 414.60 + XH2O

Assay (after drying) 98.0-102.0%
Heavy Metals (as Pb) 20 ppm
Chloride 0.05%
pH (5% solution) 6.0-7.8

CAS # 3632-91-5 DOT NR

14572	100 G
14573	500 G
14574	2.5 KG

M

MAGNESIUM HEXAFLUOROSILICATE, 99% — ITEM A4635

$MgSiF_6 \cdot 6H_2O$ F.W. 274.47

Assay (as total F) 40.7% min

CAS # 18972-56-0 DOT 6.1/III NFPA # 3-0-0

48871	500 G
48872	2.5 KG

MAGNESIUM HYDROXIDE, REAGENT — ITEM 2272

$Mg(OH)_2$ F.W. 58.32

Assay 95.0-100.5%
Loss on ignition 30-33%
Loss on drying 2.0%
Heavy metals 0.004%

CAS # 1309-42-8 DOT NR

48881	500 G
48882	2.5 KG
48883	10 KG
48884	50 KG

MAGNESIUM IODATE, TETRAHYDRATE, REAGENT — ITEM 348

$Mg(IO_3)_2 \cdot 4H_2O$ F.W. 446.20

Assay 99.0% min.
Chloride 0.01%
Iron 0.001%
Insoluble 0.005%
Sulfate 0.005%
Heavy metals(as Pb) 0.001%

CAS # 7790-32-1 DOT 5.1/II

Please Inquire For Sizes

MAGNESIUM MOLYBDATE, 99.9% — ITEM 1448

$MgMoO_4$ F.W. 184.24

Assay (metals basis) 99.9% min.

CAS # 12013-21-7 DOT NR

48911	100 G

MAGNESIUM NITRATE, HEXAHYDRATE, 99.999% — ITEM 5038

$Mg(NO_3)_2 \cdot 6H_2O$ F.W. 256.41

Assay (metals basis) 99.999% min.

CAS # 13446-18-9 DOT 5.1/III NFPA # 2-0-3

87341	10 G
87342	50 G

MAGNESIUM NITRATE, HEXAHYDRATE, BIO-REFINED™ — ITEM 1920

$Mg(NO_3)_2 \cdot 6H_2O$ F.W. 256.41

Assay 99.5% min.
Insoluble matter 0.005%
Sulfate (SO4) 0.001%
pH (1M in water @20 deg.C) 5.0-7.0
Chloride (Cl) 0.0005%
Absorbance cut off @ 333nm (1M in H2O)

As 0.1 ppm	Ba 10 ppm	Bi 10 ppm
Ca 500 ppm	Cd 5 ppm	Co 5 ppm
Cr 5 ppm	Cu 5 ppm	Fe 2 ppm
K 100 ppm	Li 5 ppm	Mn 5 ppm
Mo 5 ppm	Na 100 ppm	Ni 5 ppm
Pb 5 ppm	Sr 10 ppm	Zn 5 ppm

CAS # 13446-18-9 DOT 5.1/III NFPA # 2-0-3

48941	500 G

MAGNESIUM NITRATE, HEXAHYDRATE, REAGENT (ACS) — ITEM 786

$Mg(NO_3)_2 \cdot 6H_2O$ F.W. 256.41

Assay 98.0-102.0%
pH of 5% solution 5.0-8.2 @ 25 C
Phosphate 0.0005%
Ammonium 0.003%
Calcium 0.01%
Iron 0.0005%
Potassium 0.005%
Insoluble 0.005%
Chloride 0.001%
Sulfate 0.005%
Barium 0.005%
Heavy Metals (by ICP-OES) 0.0005%
Manganese 0.0005%
Sodium 0.005% , Strontium 0.005%

CAS # 13446-18-9 DOT 5.1/III NFPA # 2-0-3

48951	500 G
48952	2.5 KG
48953	10 KG
48954	50 KG
48956	500 KG
48957	1000 KG

MAGNESIUM OXIDE, 99.995% — ITEM 5039

MgO F.W. 40.31

Assay (metals basis) 99.995% min

CAS # 1309-48-4 DOT NR NFPA # 1-0-1

87351	5 G

MAGNESIUM OXIDE, 99.95% — ITEM A4674

MgO F.W. 40.31

Assay (metals basis) 99.95% min

CAS # 1309-48-4 DOT NR NFPA # 1-0-1

48990	5 G
48991	25 G
48992	100 G

M

MAGNESIUM OXIDE, REAGENT (ACS) ITEM 943

MgO F.W. 40.31

Assay 95.0% min
Water soluble 0.4%
Sulfate and sulfite (as SO4) 0.02%
Nitrate 0.005%
Barium 0.005%
Heavy metals (as Pb) 0.003%
Potassium 0.005%
Insoluble in dil. HCl 0.02%
Loss on ignition 2.0%
Chloride 0.01%
Calcium 0.05%
Manganese 0.0005%
Iron 0.01%
Sodium 0.5% , Strontium 0.005%

CAS # 1309-48-4 DOT NR NFPA # 1-0-1

48981	100 G
48982	500 G
48983	2.5 KG
48984	10 KG
48985	50 KG

MAGNESIUM PERCHLORATE, ANHYDROUS, REAGENT (ACS) ITEM 54

Dehydrating Agent

$Mg(ClO_4)_2$ F.W. 223.23

Water 8% maximum
Titrable base 0.025 meq/g
Appearance - granules and powder
Titrable free acid 0.005 meq/g
Suitability for moisture absorption - Pass Test

CAS # 10034-81-8 DOT 5.1/II NFPA # 1-0-3

49007	100 G	
49001	500 G	
49003	500 G	Min 12
49002	2.5 KG	
49004	12 KG	

MAGNESIUM PERCHLORATE, ANHYDROUS, REAGENT (ACS) ITEM 55

Dehydrating Agent, 10-20 mesh.

$Mg(ClO_4)_2$ F.W. 223.23

Water 8% maximum
Titrable base 0.025 meq/g
Titrable free acid 0.005 meq/g
Suitability for moisture absorption - Pass Test

CAS # 10034-81-8 DOT 5.1/II NFPA # 1-0-3

49057	100 G
49051	500 G
49052	2.5 KG
49054	12 KG

MAGNESIUM PERCHLORATE, HYDRATED, REAGENT ITEM 56

$Mg(ClO_4)_2 \bullet 6H_2O$ F.W. 331.33

Insoluble 0.005%
Sulfate 0.002%
Heavy metals (Pb) 0.0005%
Chloride 0.003%
Iron 0.0005%
pH of 5% solution 5.0-8.0 @ 25 C

CAS # 13446-19-0 DOT 5.1/II NFPA # 1-0-1

49200	100 G
49201	500 G
49202	2.5 KG
49203	10 KG
49204	50 KG

MAGNESIUM PERCHLORATE, SOLUTION ITEM 589

This material available for shipment in drums or in tank trucks. Inquire for current prices.

$Mg(ClO_4)_2 \bullet 6H_2O$

Assay as Mg(ClO4)2.6H2O 65.0-72.5%
pH of 5% solution 7-10 @ 25 C
Sulfate 0.043%
Appearance Clear, colorless
Chloride 0.006%

CAS # 13446-19-0 DOT NR

49304	4 L
49305	20 L
49301	182 KG

Specific Gravity 1.440

MAGNESIUM PHOSPHATE, TRIBASIC, PENTAHYDRATE, REAGENT ITEM 2282

Typically 200 mesh and finer powder.

$Mg_3(PO_4)_2 \bullet 5H_2O$ F.W. 352.87

Assay 98.0-101.5%
Loss on drying 20.0-27.0%
Arsenic 0.0003%
Solubility in HCl - Clear/colorless
Heavy Metals 0.003%
Lead 0.0005%

CAS # 13446-23-6 DOT NR

49231	500 G
49232	2.5 KG
49233	10 KG
49234	50 KG

MAGNESIUM SILICATE, ACTIVATED

See Florisil, 60-100 Mesh

MAGNESIUM SILICATE, HYDROUS

See Talc

MAGNESIUM STANNATE, 99.9% ITEM 1452

$MgSnO_3$ F.W. 155.00

CAS # 12032-29-0 DOT NR

49361	100 G

MAGNESIUM SULFATE, 99.99+% ITEM 5040

$MgSO_4$ F.W. 120.37

Assay (metals basis) 99.99% min.

CAS # 7487-88-9 DOT NR NFPA # 1-0-0

87361	10 G
87362	50 G

M

MAGNESIUM SULFATE, ANHYDROUS, REAGENT — ITEM 944

$MgSO_4$ F.W. 120.37

Assay 97%
Chloride 0.001%
Calcium 0.04%
Heavy Metals (Pb) 0.001%
Loss on ignition 2.0%
Nitrate 0.005%
Manganese 0.001%
Iron 0.001%

CAS # 7487-88-9 DOT NR NFPA # 1-0-0

49491	500 G
49492	2.5 KG
49493	10 KG
49494	50 KG

MAGNESIUM SULFATE, HEPTAHYDRATE, BIO-REFINED™ — ITEM 1921

$MgSO_4 \cdot 7H_2O$ F.W. 246.47

Assay 99% min.
Insoluble matter 0.005%
Total Nitrogen (N) 0.002%
pH (1M in water @ 25C) 5.0-8.0
Chloride (Cl) 0.0005%
Absorbance (1M in H2O) @ 260 nm <0.010
Absorbance (1M in H2O) @ 280 nm <0.010

Ca 50 ppm
Cr 5 ppm
K 10 ppm
Ni 5 ppm
Zn 5 ppm
Cd 5 ppm
Cu 5 ppm
Mn 5 ppm
Pb 5 ppm
Co 5 ppm
Fe 1 ppm
Na 10 ppm
Sr 5 ppm

CAS # 10034-99-8 DOT NR

49251	500 G

MAGNESIUM SULFATE, HEPTAHYDRATE, REAGENT (ACS) — ITEM 725

$MgSO_4 \cdot 7H_2O$ F.W. 246.47

Assay 98.0-102.0%
pH of 5% solution 5.0-8.2 @ 25 C
Nitrate 0.002%
Strontium 0.005%
Heavy Metals (by ICP-OES) 0.0005%
Manganese 0.0005%
Sodium 0.005%
Insoluble 0.005%
Chloride 0.0005%
Ammonium 0.002%
Calcium 0.02%
Iron 0.0005%
Potassium 0.005%

CAS # 10034-99-8 DOT NR NFPA # 1-0-0

49501	500 G
49502	2.5 KG
49503	10 KG
49504	50 KG

MAGNESIUM TITANATE, 99.9% — ITEM 1456

-325 mesh

$MgTiO_3$ F.W. 120.18

Assay 99.9% min.

CAS # 12032-30-3 DOT NR

49401	100 G

MAGNESIUM TRIFLATE

See Magnesium Trifluoromethanesulfonate

MAGNESIUM TRIFLUOROMETHANESULFONATE — ITEM 3535

Not on the TSCA inventory

$Mg(CF_3SO_3)_2$ F.W. 322.45

CAS # 60871-83-2 DOT 8/II NFPA # 2-0-0

49261	5 G
49262	25 G

MAGNETIC STIRRER — ITEM 376

See Laboratory Apparatus section in front of catalog for more information.
Working temperature up to 60 C.

Suitability - pass test

DOT NR

78501	EACH	
78502	EACH	Min 12

MAGNETIC STIRRER, HIGH HEAT — ITEM 2910

See Laboratory Apparatus section in front of catalog for more information.
Working temperature up to 105 C.

Suitability - pass test

DOT NR

78521	EACH
78522	DOZEN

MAGNETIC STIRRING BAR, 1-1/2" X 5/16" PTFE COVERED — ITEM 3871

DOT NR

78621	EACH
78622	DOZEN

MAGNETIC STIRRING BAR, 1" X 5/16" PTFE COVERED — ITEM 3872

DOT NR

78641	EACH
78642	DOZEN

MALEIC ACID, 99% — ITEM 5427

HOOCCH=CHCOOH F.W. 116.07

Assay 99% min.

CAS # 110-16-7 DOT NR NFPA # 3-0-0

17281	500 G
17282	2.5 KG
17284	50 KG

M

MALEIC ANHYDRIDE, 98% — ITEM 4559

$C_4H_2O_3$ F.W. 98.06

Assay 98% min.

CAS # 108-31-6 DOT 8/III

16121	50 G
16122	500 G
16123	2 KG

MALONIC ACID, 99% — ITEM 4071

$CH_2(CO_2H)_2$ F.W. 104.06

Assay 99% min.

CAS # 141-82-2 DOT NR

20091	500 G
20092	2.5 KG

MANGANESE, METAL, 99.98% — ITEM A4740

Flakes

Mn F.W. 54.94

Assay (metals basis) 99.98%

CAS # 7439-96-5 DOT NR

49421	500 G

MANGANESE, METAL, 99% — ITEM A4743

Powder

Mn F.W. 54.94

Assay (metals basis) 99%

CAS # 7439-96-5 DOT NR

49410	250 G
49411	1 KG

MANGANESE, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1765

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22650	100 ML
22652	500 ML

Specific Gravity 1.030

MANGANESE, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1764

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22640	100 ML
22642	500 ML

Specific Gravity 1.030

MANGANESE, 1,000 ppm STANDARD SOLUTION — ITEM 753

AA, colorimetric or volumetric standard

Concentration 1,000 ± 10 ug/ml Matrix: <5% Nitric acid
NIST Traceable

DOT NR NFPA # 2-0-1

70230	100 ML
70232	500 ML

Specific Gravity 1.030

MANGANESE ACETATE, TETRAHYDRATE, REAGENT — ITEM A4746

$Mn(C_2H_3O_2)_2 \bullet 4H_2O$ F.W. 245.09

Assay 98.0% min
Chloride 0.01%
Iron 0.005%
Nickel 10 ppm
Insoluble 0.01%
Sulfate 0.005%
Heavy metals (as Pb) 0.005%
Copper 50 ppm

CAS # 6156-78-1 DOT NR NFPA # 1-0-0

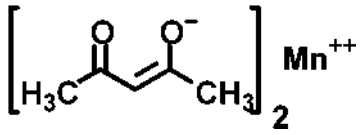
49431	500 G
49432	2.5 KG

MANGANESE (II) ACETYLACETONATE — ITEM A4752

$Mn(C_5H_7O_2)_2$ F.W. 253.16

CAS # 14024-58-9 DOT NR

49451 100 G



MANGANESE CARBONATE — ITEM 5315

$MnCO_3$ F.W. 114.94

Assay (as Mn) 44-48%
Chloride 0.01%
Iron 0.05%
Insoluble in HCl 0.01%
Sulfate 0.5%

CAS # 598-62-9 DOT NR NFPA # 1-0-1

49536	500 G
49537	2.5 KG
49538	10 KG
49539	50 KG

M

MANGANESE CHLORIDE, ANHYDROUS, BEADS — ITEM 3600

$MnCl_2$ F.W. 125.84

Assay 98%

CAS # 7773-01-5 DOT 6.1/III

49281 500 G
49282 2.5 KG

MANGANESE CHLORIDE, TETRAHYDRATE, 99.999% — ITEM 5041

$MnCl_2 \bullet 4H_2O$ F.W. 197.91

Assay (metals basis) 99.999% min.

CAS # 13446-34-9 DOT NR NFPA # 1-0-1

87371 5 G
87372 25 G
87373 100 G

MANGANESE CHLORIDE, TETRAHYDRATE, REAGENT (ACS) — ITEM 945

$MnCl_2 \bullet 4H_2O$ F.W. 197.91

Assay 98.0-101.0%
pH of 5% solution 3.5-6.0
Calcium 0.005%
Iron 0.0005%
Potassium 0.01%
Zinc 0.005%
Insoluble 0.005%
Sulfate 0.005%
Heavy Metals (Pb) 0.0005%
Magnesium 0.005%
Sodium 0.05%

CAS # 13446-34-9 DOT NR NFPA # 1-0-1

49540 100 G
49541 500 G
49542 2.5 KG

MANGANESE DIOXIDE, 99.99% — ITEM 5042

MnO_2 F.W. 86.94

Assay (metals basis) 99.99%

CAS # 1313-13-9 DOT NR

87381 5 G
87382 25 G

MANGANESE DIOXIDE, REAGENT — ITEM 946

MnO_2 F.W. 86.94

Assay 99% min.
Chloride 0.01%
Sulfate 0.08%
Insoluble in HCl 0.05%
Nitrate 0.05%
Iron 0.05%

CAS # 1313-13-9 DOT NR NFPA # 1-0-1

49560 100 G
49561 500 G
49562 2.5 KG

MANGANESE DIOXIDE, 5 um, ACTIVATED — ITEM 2421

For organic oxidations

MnO_2 F.W. 86.94

Particle size (average) 5 um

CAS # 1313-13-9 DOT NR NFPA # 1-0-1

49471 100 G
49472 500 G

MANGANESE (III) FLUORIDE — ITEM A4800

MnF_3 F.W. 111.93

CAS # 7783-53-1 DOT NR

49521 10 G

MANGANESE IODIDE, 99% — ITEM A4806

$MnI_2 \bullet 4H_2O$ F.W. 380.81

CAS # 13446-37-2 DOT NR

49581 25 G

MANGANESE NITRATE SOLUTION, 50%, REAGENT — ITEM 1170

$Mn(NO_3)_2$ F.W. 178.95

Assay 48-52%
Chloride 0.002%
Heavy Metals (Pb) 0.002%
Specific gravity 1.52-1.56
Substances not ppt'd by (NH4)2S 0.2%
Sulfate 0.01%
Iron 0.005%

CAS # 10377-66-9 DOT 5.1/III NFPA # 2-0-3

49681 500 ML
49682 2.5 L
49684 20 L

Specific Gravity 1.540

MANGANESE OXALATE, DIHYDRATE — ITEM 2334

$MnC_2O_4 \bullet 2H_2O$ F.W. 178.99

Assay 99.5% min.
Chloride 0.005%
Insoluble 0.01%
Sulfate 0.005%

CAS # 6556-16-7 DOT NR

49691 100 G

MANGANESE (II,III) OXIDE — ITEM A4827

Mn_3O_4 F.W. 228.81

Assay 69.5-74.6% as Mn.
Appearance Brown Powder

CAS # 1317-35-7 DOT NR NFPA # 1-0-0

49591 500 G

M

MANGANESE PERCHLORATE, HYDRATED, REAGENT — ITEM 57

$Mn(ClO_4)_2 \cdot 6H_2O$ F.W. 361.94

Manganese content 14.9-15.9%
Chloride 0.01%
Iron 0.01%
Insoluble 0.01%
Sulfate 0.005%
pH of 5% solution 0-3

CAS # 15364-94-0 DOT 5.1/II NFPA # 2-0-3

49600	100 G
49601	500 G
49602	2.5 KG

MANGANESE SULFATE, MONOHYDRATE, REAGENT (ACS) — ITEM 947

$MnSO_4 \cdot H_2O$ F.W. 169.02

Assay 98.0-101.0%
Loss on ignition 10.0-12.0%
Calcium 0.005%
Iron 0.002%
Nickel 0.02%
Sodium 0.05%
Insoluble 0.01%
Chloride 0.005%
Heavy Metals (Pb) 0.002%
Magnesium 0.005%
Potassium 0.01%
Zinc 0.005%
Substances reducing permanganate - pass test

CAS # 10034-96-5 DOT NR NFPA # 1-0-1

49630	100 G
49631	500 G
49632	2.5 KG
49633	10 KG
49634	50 KG

MANNITOL, REAGENT (ACS) — ITEM 948

$HOCH_2(CHOH)_4CH_2OH$ F.W. 182.17

Reducing sugars - Pass test
Insoluble 0.01%
Residue after ignition 0.01%
Heavy Metals (by ICP-OES) 0.0005%
Specific rotation +23.3 to +24.3
Loss on drying @ 105 C 0.05%
Titrable acid 0.0008 meq/g

CAS # 69-65-8 DOT NR NFPA # 0-2-1

49651	500 G
49652	2.5 KG
49653	10 KG
49654	50 KG

MEHLICH III EXTRACTANT SOLUTION for SOIL ANALYSIS — ITEM 5606

pH of Solution 2.5 ± 0.1

Ag 0.01 ppm	Al 0.01 ppm	As 0.01 ppm
B 0.01 ppm	Ba 0.01 ppm	Bi 0.01 ppm
Ca 0.01 ppm	Cd 0.01 ppm	Co 0.01 ppm
Cr 0.01 ppm	Cu 0.01 ppm	Fe 0.02 ppm
K 0.01 ppm	Li 0.05 ppm	Mg 0.05 ppm
Mn 0.01 ppm	Mo 0.01 ppm	Na 1 ppm
Ni 0.01 ppm	P 0.01 ppm	Pb 0.02 ppm
S 0.2 ppm	Sb 0.02 ppm	Si 1 ppm
Sn 0.01 ppm	Sr 0.02 ppm	Zn 0.01 ppm

DOT NR

19052	4 X 4 L
19053	20 L
19054	200 L

MEHLICH III KIT — ITEM 5617

Kit contains Mehlich III Stock Solution A and Mehlich III Concentrate B. Mix the two solutions with deionized or reverse osmosis water and dilute to the specified volume with water.

DOT 8/III

20351	KIT / 50 L

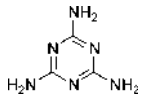
MELAMINE, 99% — ITEM 2937

$C_3N_3(NH_2)_3$ F.W. 126.12

Assay 99% min.

CAS # 108-78-1 DOT NR NFPA # 1-0-0

84901	500 G
84902	2.5 KG
84903	10 KG



MERCAPTOACETIC ACID

See Thioglycolic Acid

MERCURIC ACETATE, REAGENT (ACS) — ITEM 949

$Hg(C_2H_3O_2)_2$ F.W. 318.68

Assay 98.0% min.
Residue after reduction 0.02%
Nitrate 0.005%
Other heavy metals (as Pb) 0.002%
Mercurous Mercury 0.4%
Insoluble matter 0.01%
Chloride 0.005%
Sulfate 0.005%
Iron 0.001%

CAS # 1600-27-7 DOT 6.1/II NFPA # 3-0-0

49701	100 G
49702	500 G
49706	2.5 KG
49703	10 KG
49704	50 KG

MERCURIC BROMIDE, REAGENT (ACS) — ITEM 950

$HgBr_2$ F.W. 360.40

Appearance-pass test
Insoluble in methanol 0.05%
Residue after reduction 0.02%
Chloride 0.25%

CAS # 7789-47-1 DOT 6.1/II NFPA # 3-0-0

49731	100 G
49732	500 G

M

MERCURIC CHLORIDE, 99.999% ITEM 5043

Mercury II Chloride

$HgCl_2$ F.W. 271.50

Assay (metals basis) 99.999% min.

CAS # 7487-94-7 DOT 6.1/II NFPA # 4-0-1

87391	25 G
87392	100 G

MERCURIC CHLORIDE, REAGENT (ACS) ITEM 951

$HgCl_2$ F.W. 271.50

Assay 99.5% min.
Residue after reduction 0.02%
Iron 0.002%
Solution in ethyl ether Passes Test

CAS # 7487-94-7 DOT 6.1/II NFPA # 4-0-1

49751	100 G
49752	500 G
49753	2.5 KG
49754	10 KG
49755	50 KG

MERCURIC IODIDE, 99.999% ITEM 5044

Mercury II Iodide

HgI_2 F.W. 454.40

Assay (metals basis) 99.999%

CAS # 7774-29-0 DOT 6.1/II NFPA # 3-0-0

87401	10 G
87402	50 G

MERCURIC IODIDE, RED, REAGENT (ACS) ITEM 952

HgI_2 F.W. 454.40

Assay 99.0% min.
Mercurous mercury 0.1%
Solubility in KI solution - Pass Test
Soluble mercury salts 0.05%

CAS # 7774-29-0 DOT 6.1/II NFPA # 3-0-0

49771	100 G
49772	500 G
49775	2.5 KG
49773	10 KG
49774	50 KG

MERCURIC NITRATE, MONOHYDRATE, 99.999% ITEM 5045

Mercury II Nitrate

$Hg(NO_3)_2 \bullet H_2O$ F.W. 342.62

Assay (metals basis) 99.999% min.

CAS # 7783-34-8 DOT 6.1/II NFPA # 3-0-3

87411	10 G
87412	50 G

MERCURIC NITRATE, MONOHYDRATE, REAGENT (ACS) ITEM 613

$Hg(NO_3)_2 \bullet H_2O$ F.W. 342.62

Assay 98.0% min
Chloride 0.002%
Iron 0.001%
Residue after reduction 0.01%
Sulfate 0.002%

CAS # 7783-34-8 DOT 6.1/II NFPA # 3-0-3

49801	100 G
49802	500 G
49803	2.5 KG
49804	10 KG
49805	50 KG

MERCURIC NITRATE SOLUTION, 0.1 N ITEM 2080

0.05 mol/L

$Hg(NO_3)_2 \bullet H_2O$ F.W. 342.62

Concentration 0.100 ±0.001N

CAS # 7783-34-8 DOT 6.1/II

24791	500 ML

Specific Gravity 1.015

MERCURIC NITRATE SOLUTION, 0.01 N ITEM 9171

$Hg(NO_3)_2 \bullet H_2O$ F.W. 342.62

Concentration 0.0100 ± 0.0010 N

CAS # 7783-34-8 DOT 6.1/III

20111	500 ML

MERCURIC OXIDE, 99.999% ITEM 5046

Mercury II Oxide

HgO F.W. 216.59

Assay (metals basis) 99.999% min.

CAS # 21908-53-2 DOT 6.1/II NFPA # 4-0-0

87421	2 G
87422	10 G

MERCURIC OXIDE, RED, REAGENT (ACS) ITEM 953

HgO F.W. 216.59

Assay 99.0% min.
Residue after reduction 0.025%
Sulfate 0.015%
Iron 0.005%
Insoluble in dil. HCl 0.03%
Chloride 0.025%
Nitrogen compounds 0.005%

CAS # 21908-53-2 DOT 6.1/II NFPA # 4-0-0

49851	100 G
49852	500 G
49853	2.5 KG

MERCURIC OXIDE, YELLOW, REAGENT (ACS) ITEM 954

HgO F.W. 216.59

Assay 99.0% min.
Residue after reduction 0.05%
Sulfate 0.01%
Iron 0.003%
Insoluble in dil. HCl 0.03%
Chloride 0.025%
Nitrogen compounds 0.005%

CAS # 21908-53-2 DOT 6.1/II NFPA # 4-0-0

49861	100 G
49862	500 G

MERCURIC OXIDE, RED, REAGENT ITEM 5596

HgO F.W. 216.59

Assay 99.0% min.
Residue after reduction 0.025%
Sulfate 0.015%
Iron 0.02%
Insoluble in dil. HCl 0.03%
Chloride 0.025%
Nitrogen compounds 0.05%

CAS # 21908-53-2 DOT 6.1/II NFPA # 4-0-0

18961	100 G
18962	500 G
18963	2.5 KG

MERCURIC PERCHLORATE, TRIHYDRATE, REAGENT ITEM 60

$Hg(ClO_4)_2 \bullet 3H_2O$ F.W. 453.54

Assay 96.0-102.0%
pH of 5% solution 1-4
Nitrate 0.05%
Iron 0.01%
Insoluble matter 0.01%
Chloride 0.01%
Sulfate 0.03%

CAS # 73491-34-6 DOT 6.1/II NFPA # 4-0-3

49901	100 G
49902	500 G

MERCURIC POTASSIUM IODIDE, REAGENT ITEM 1074

K_2HgI_4 F.W. 786.40

Assay 95% min
Mercurous 0.2%

CAS # 7783-33-7 DOT 6.1/II

49952	20 G
49951	100 G

MERCURIC POTASSIUM IODIDE, SOLUTION

See Nessler Reagent

MERCURIC SULFATE, REAGENT (ACS) ITEM 614

$HgSO_4$ F.W. 296.65

Assay 98.0% min.
Chloride 0.003%
Nitrate Pass Test
Residue after reduction 0.02%
Mercurous 0.15%
Iron 0.005%

CAS # 7783-35-9 DOT 6.1/II NFPA # 4-0-1

50001	100 G
50002	500 G
50003	2.5 KG
50004	10 KG
50005	50 KG

MERCURIC SULFATE SOLUTION, FOR DIGESTION ITEM 2338

Catalyst for Kjeldahl Nitrogen Test (Standard Methods method 4500-B, 18th edition)

Suitability for determination of organic nitrogen

DOT 8/II

49991	500 ML

Specific Gravity 1.300

MERCURIC THIOCYANATE, REAGENT ITEM 955

See also Chloride Color Reagent #1991

$Hg(SCN)_2$ F.W. 316.78

Sensitivity to chloride - Pass Test Chloride 0.002%

CAS # 592-85-8 DOT 6.1/II NFPA # 3-0-1

50022	20 G
50021	100 G

MERCURIC THIOCYANATE SOLUTION

See Chloride Color Reagent

MERCUROUS CHLORIDE, REAGENT (ACS) ITEM 956

Hg_2Cl_2 F.W. 472.09

Assay 99.5% min
Mercuric chloride 0.01%
Residue after reduction 0.02%
Sulfate 0.01%

CAS # 10112-91-1 DOT 6.1/II NFPA # 3-0-0

50051	100 G
50052	500 G
50053	2.5 KG
50055	50 KG

M

MERCUROUS NITRATE, DIHYDRATE, REAGENT — ITEM 957

Item removed from ACS Reagent Chemicals, 10th edition. These specs conform to the 9th edition specifications.

$Hg_2(NO_3)_2 \bullet 2H_2O$ F.W. 561.22

Assay 97.0% min.
Residue after reduction 0.01%
Sulfate 0.005%
Mercuric 0.5%
Insoluble 0.005%
Chloride 0.005%
Iron 0.001%

CAS # 14836-60-3 DOT 6.1/II NFPA # 3-0-3

50081 100 G
50082 500 G

MERCUROUS NITRATE, 10%, SOLUTION IN 10% NITRIC ACID — ITEM 9248

$HgNO_3$

Concentration 10 ± 0.5%

CAS # 10415-75-5 DOT 8/6.1/II

10171 2.5 L PVC
10172 6X2.5L PVC Min 10

Specific Gravity 1.080

MERCURY, REAGENT (ACS) — ITEM 693

Hg F.W. 200.59

Appearance-pass test
Nonvolatile Matter 0.0005%

CAS # 7439-97-6 DOT 8/6.1/III NFPA # 3-0-0

50203 100 G
50201 500 G
50202 2.5 KG

Specific Gravity 13.590

MERCURY, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1767

Concentration 10,000 ± 100 ug/ml
NIST Traceable
Matrix: 5% Nitric acid

DOT 8/III NFPA # 3-0-2

22670 100 ML
22672 500 ML

Specific Gravity 1.030

MERCURY, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1766

Concentration 1,000 ± 10 ug/ml
NIST Traceable
Matrix: 5% Nitric acid

DOT 8/III NFPA # 3-0-2

22660 100 ML
22662 500 ML

Specific Gravity 1.030

MERCURY, 1,000 ppm STANDARD SOLUTION — ITEM 754

AA, colorimetric or volumetric standard

Concentration 1,000 ± 10 ug/ml
NIST Traceable
Matrix: <5% Nitric acid

DOT NR NFPA # 3-0-2

70240 100 ML
70242 500 ML

Specific Gravity 1.030

MES

See 2-(N-Morpholino)ethanesulfonic Acid, Monohydrate

MESITYLENE, 98% — ITEM 5429

1,3,5-Trimethylbenzene

$C_6H_3(CH_3)_3$ F.W. 120.20

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless liquid

CAS # 108-67-8 DOT 3/III

16131 50 ML
16132 250 ML

Specific Gravity 0.865

MESO-TETRAPHENYLPORPHYRIN MANGANESE (III) CHLORIDE

See Chloride Ionophore I

METALPHTHALEIN, REAGENT (ACS) — ITEM 1257

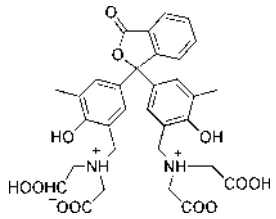
Cresolphthalein Complexone

$C_{32}H_{32}N_2O_{12} \bullet nH_2O$ F.W. 636.62

Suitability as indicator for complexometry - Pass
Clarity of solution - Pass test

CAS # 2411-89-4 DOT NR

50251 5 G
50252 25 G



METHALLYL BROMIDE

See 3-Bromo-2-Methyl-1-Propene

M

METHANESULFONYL CHLORIDE, 98% ITEM 2749

CH_3SO_2Cl F.W. 114.55

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms
Color - Colorless to faint yellow
Clarity / Form - Clear, liquid

CAS # 124-63-0 DOT 6.1/8/I

50261	100 G
50262	500 G
50263	1 KG
50264	5 KG

Specific Gravity 1.477

METHANOL

See Methyl Alcohol

1-METHOXY-1-BUTEN-3-YNE ITEM 3889

Mixed isomers, typically >85% trans

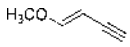
$HC{\equiv}CCH{=}CHOCH_3$ F.W. 82.10

Assay (cis/trans total), 97.5% min
Appearance - Clear, colorless to amber liquid
Stabilizer (BHT/K2CO3), Confirm presence

CAS # 2798-73-4 DOT 3/II

15051	1 G
15052	5 G
15053	25 G
15054	200 G
15055	1 KG

Specific Gravity 0.886



2-METHOXYETHANOL, REAGENT (ACS) ITEM 958

$CH_3OCH_2CH_2OH$ F.W. 76.10

Assay (GC-FID), 99.3% min
Water (KF), 0.1% max
Titrable acid 0.002 meq/g
Color (APHA), 10 max

CAS # 109-86-4 DOT 3/III NFPA # 2-2-2

50301	500 ML
50302	4 L
50303	4 X 4 L
50304	19 L
50305	208 L

Specific Gravity 0.966

2-(2-METHOXYETHOXY)ETHANOL

See Diethylene Glycol Monomethyl Ether, 98%

7-METHOXY-1-HEPTENE ITEM 5351

6-Hepten-1-ol methyl ether. Not on the TSCA inventory.

$CH_3O(CH_2)_5CH{=}CH_2$ F.W. 128.21

CAS # 5048-31-7 DOT 3/III

Please Inquire For Sizes

4-METHOXYPHENYLACETYLENE

See 4-Ethynylanisole, 98%

3-METHOXYPHENYLPROPARGYL ALCOHOL, 97% ITEM 3206

Not on the TSCA inventory.

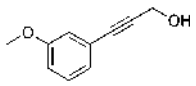
$CH_3OC_6H_4C{\equiv}CCH_2OH$ F.W. 162.19

Assay (GC-FID), 96.5% min
Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 27913-19-5 DOT 9/III

82011	5 G
82012	25 G
82013	100 G
82014	500 G

Specific Gravity 0.992



1-METHOXY-2-PROPANOL, 99% ITEM 5430

Propyleneglycol methyl ether

$CH_3OCH_2CH(OH)CH_3$ F.W. 90.12

Assay (GC-FID), 98.5% min
Identification by GC/MS - Conforms
H2O (KF), 0.5% max

CAS # 107-98-2 DOT 3/III

16151	500 ML
16152	2 L

Specific Gravity 0.918

METHYL ACETATE, 99% ITEM 5431

CH_3COOCH_3 F.W. 74.08

Assay (GC-FID), 98.5% min
Appearance - Clear, colorless liquid

CAS # 79-20-9 DOT 3/II

16162	500 ML
16163	2 L

Specific Gravity 0.932

M

METHYLACETYLENE

See Propyne, 99%

METHYL ALCOHOL, VERITAS® ULTIMATE, for PURGE and TRAP — ITEM 1995

CH_3OH F.W. 32.04

Assay (GLC) 99.9% min
Residue after Evaporation 0.0001%
Volatile impurities (as MEK) 0.1 ppm max
Volatile impurities (all other) NMT 0.05 ppm each
Color (APHA) 10 max
Water 0.2%
All other Ketones NMT 0.05 ppm each

CAS # 67-56-1 DOT 3/II NFPA # 3-3-1

50422	1 L
50424	6 X 1 L

Specific Gravity 0.790

METHYL ALCOHOL, GRADIENT, VERITAS® ULTIMATE — ITEM 5570

CH_3OH F.W. 32.04

Assay 99.90% min
Residue after evaporation 0.0001%
Titrable acid 0.0003 meq/g
Fluorescence 500 ppt
Gradient at 254 nm 0.001 AU max
UV at 210 nm 0.25 max
UV at 250 nm 0.01 max
Acetone 0.001% max
Color (APHA) 10 max
Titrable base 0.0002 meq/g
Gradient at 235 nm 0.001 AU max
UV Cutoff 203 nm
UV at 230 nm 0.03 max
Water 0.05% max

CAS # 67-56-1 DOT 3/II NFPA # 3-3-0

18081	4 L
18082	4 X 4 L

Specific Gravity 0.790

METHYL ALCOHOL, DISTILLED IN GLASS — ITEM 1240

Methanol. Suitable for pesticide analysis, gas chromatography, liquid chromatography and spectrophotometry.

CH_3OH F.W. 32.04

Assay (GLC) 99.8% min
Chlorinated hydrocarbon residue 10 pg/ml
Ultraviolet absorbance @ 300 nm 0.01
H2O (KF), 0.08% max
Residue after evaporation 0.0003%

CAS # 67-56-1 DOT 3/II NFPA # 3-3-1

50413	1 L
50414	6 X 1 L
50411	4 L
50412	4 X 4 L

Specific Gravity 0.790

METHYL ALCOHOL, HPLC — ITEM 2483

Also meets ACS Specifications.

CH_3OH F.W. 32.04

Assay 99.9% min.
Substances reducing permanganate - Pass test
Water 0.1% max.
Solubility in water - Pass test
Titrable acid 0.0003 meq/g
LC Gradient suitability - Pass test
Absorbance @ 230 nm 0.15 / @ 254 nm 0.01
Substances darkened by H2SO4 - Pass test
Color (APHA) 10 max.
Residue after evaporation 3 ppm
Acetone, Formaldehyde, Acetaldehyde 0.001% each
Titrable base 0.0002 meq/g
Absorbance @ 205 nm 1.0 / @ 220 nm 0.30

CAS # 67-56-1 DOT 3/II NFPA # 3-3-1

50441	1 L
50442	6 X 1 L
50443	4 L
50444	4 X 4 L
50447	4 L PVC
50448	4 X 4L PVC

Specific Gravity 0.790

METHYL ALCOHOL, LOW WATER, REAGENT (ACS) — ITEM 2575

CH_3OH F.W. 32.04

Assay 99.8% min.
Substances reducing permanganate Pass test
Water 0.03%
Solubility in water Pass test
Formaldehyde 0.001%
Titrable acid 0.0003 meq/g
Substances darkened by H2SO4 Pass test
Color (APHA) 10 max.
Residue after evaporation 0.001%
Acetone 0.001%
Acetaldehyde 0.001%
Titrable base 0.0002 meq/g

CAS # 67-56-1 DOT 3/II NFPA # 3-3-1

50381	1 L
50382	6 X 1 L
50383	4 L
50384	4 X 4 L

Specific Gravity 0.790

METHYL ALCOHOL, REAGENT (ACS) — ITEM 1679

Low acetone. Methanol

CH_3OH F.W. 32.04

Assay 99.8% min.
Substances reducing permanganate Pass test
Water 0.1%
Solubility in water Pass test
Titrable acid 0.0003 meq/g
Substances darkened by H2SO4 Pass test
Color(APHA) 10 max.
Residue after evaporation 0.001%
Acetone, Formaldehyde, Acetaldehyde 0.001% each
Titrable base 0.0002 meq/g

CAS # 67-56-1 DOT 3/II NFPA # 3-3-1

50394	1 L
50395	6 X 1 L
50391	4 L
50392	4 X 4 L
50393	19 L

Specific Gravity 0.790

M

METHYL ALCOHOL — ITEM 814

Iron and copper free. Methanol

CH_3OH F.W. 32.04

Iron, 5 ppm max
Copper, 5 ppm max
Color (APHA), 10 max

CAS # 67-56-1 DOT 3/II NFPA # 3-3-1

50401	4 L GLASS
50403	4 X 4 L GL
50404	20 L CAN
50406	4 L POLY
50407	4 X 4 L PL
50408	20 L POLY

Specific Gravity 0.790

METHYL ALCOHOL, DRY

See Watermark Karl Fischer Solvent, Methyl Alcohol

METHYLAMINE, 40%, AQUEOUS SOLUTION — ITEM 5432

CH_3NH_2 F.W. 31.06

Concentration (Acid-base titration), 38.0% - 43.0%

CAS # 74-89-5 DOT 3/8/II

16171	100 ML
16172	500 ML
16173	2 L

Specific Gravity 0.897

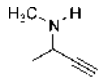
3-METHYLAMINO-1-BUTYNE — ITEM 3890

Not on the TSCA inventory.

$CH_3CH(NHCH_3)C{\equiv}CH$ F.W. 83.13

CAS # 4070-90-0 DOT 3/8/II

Please Inquire For Sizes



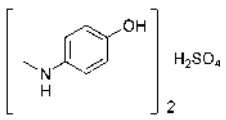
4-(METHYLAMINO)PHENOL SULFATE, REAGENT (ACS) — ITEM 2403

$(CH_3NHC_6H_4OH)_2{\bullet}H_2SO_4$ F.W. 344.39

Assay 99.0 - 101.5%
Residue after ignition 0.1% max
Suitability for Phosphate Determination Pass Test

CAS # 55-55-0 DOT 9/III

88231	100 G
88232	500 G



3-(N-METHYLAMINO)-1-PROPYNE

See N-Methylpropargylamine

METHYLBENZENE

See Toluene

4-METHYLBENZENESULFONIC ACID, MONOHYDRATE

See p-Toluenesulfonic Acid

3-METHYL-1,2-BUTADIENE, 97% — ITEM 3207

Not on the TSCA inventory.

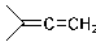
$(CH_3)_2C{=}C{=}CH_2$ F.W. 68.12

Assay (GC-FID), 96.5% min
Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 598-25-4 DOT 3/II

Please Inquire For Sizes

Specific Gravity 0.620



2-METHYLBUTANE

See Isopentane, 99%

3-METHYL-1-BUTENE — ITEM 4406

97%

$(CH_3)_2CHCH{=}CH_2$ F.W. 70.14

Assay (GC-FID) 96.5%

CAS # 563-45-1 DOT 3/I

Please Inquire For Sizes

Specific Gravity 0.627

2-METHYL-1-BUTEN-3-YNE, 99% — ITEM 3208

Not on the TSCA inventory.

$H_2C{=}C(CH_3)C{\equiv}CH$ F.W. 66.10

Assay (GC-FID), 98.5% min
Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid
Stabilizer (BHT), Confirm presence

CAS # 78-80-8 DOT 3/I

82030	5 G
82033	25 G
82034	100 G
82035	500 G

Specific Gravity 0.704

M

METHYL tert-BUTYL ETHER, VERITAS® ULTIMATE — ITEM 5573

$(CH_3)_3COCH_3$ F.W. 88.15

Assay 99.7%
FID responsive substances 5 ug/L
Fluorescence (as quinine base) 500 ppt
UV at 225 nm 0.4 AU max
UV at 270 nm 0.01 AU max
Peroxides 0.0001%
ECD responsive substances 5 pg/ml
Residue after evaporation 0.0001%
UV cut-off 205 nm
UV at 250 nm 0.1 AU max
UV at 300 nm 0.01 AU max
Water 0.05%

CAS # 1634-04-4 DOT 3/II

18111 4 L
18112 4 X 4 L

Specific Gravity 0.740

METHYL tert-BUTYL ETHER, DISTILLED IN GLASS — ITEM 2267

MTBE. Meets ACS Specs for UV-Spectrophotometry.

$(CH_3)_3COCH_3$ F.W. 88.15

Assay 99.7%
Peroxide (at time of packaging) 0.0001%
Residue after evaporation 0.0005%
Ultraviolet absorbance @ 225 nm 0.40
Ultraviolet absorbance @ 300 nm 0.01
Color (APHA) 10
Water 0.05% max.
Ultraviolet absorbance @ 205 nm 1.00
Ultraviolet absorbance @ 250 nm 0.10
Ultraviolet absorbance @ 400 nm 0.01

CAS # 1634-04-4 DOT 3/II NFPA # 1-3-0

18468 1 L
18469 6 X 1 L
18466 4 L
18467 4 X 4 L

Specific Gravity 0.740

METHYL tert-BUTYL ETHER, HPLC — ITEM 2490

MTBE. Also meets ACS Specifications.

$(CH_3)_3COCH_3$ F.W. 88.15

Assay 99.0% min.
Peroxide 0.0001%
Water 0.05%
UV Absorbance at 225 nm 0.50
UV Absorbance at 300 nm 0.01
Color (APHA) 10 max.
Residue after evaporation 0.0001%
UV Absorbance at 205 nm 1.00
UV Absorbance at 250 nm 0.10

CAS # 1634-04-4 DOT 3/II NFPA # 1-3-0

50481 1 L
50482 6 X 1 L
50483 4 L
50484 4 X 4 L

Specific Gravity 0.740

METHYL tert-BUTYL ETHER, REAGENT (ACS) — ITEM 2268

MTBE

$(CH_3)_3COCH_3$ F.W. 88.15

Assay 99.0% min.
Peroxide (as H2O2) 0.0001%
Water 0.05%
Color (AHPH) 10 max.
Residue after evaporation 0.001%

CAS # 1634-04-4 DOT 3/II NFPA # 1-3-0

18463 1 L
18464 6 X 1 L
18461 4 L
18462 4 X 4 L
18465 20 L

Specific Gravity 0.740

3-METHYL-1-BUTYL IODIDE

See 1-Iodo-3-Methylbutane, 97%

3-METHYL-1-BUTYNE, 96% — ITEM 3209

Not on the TSCA inventory.

$(CH_3)_2CHC{\equiv}CH$ F.W. 68.13

Assay (GC-FID), 95.0% min
Color - Colorless
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid when < 29 C

CAS # 598-23-2 DOT 3/I

82041 10 G
82042 50 G
82043 250 G
82044 1 KG

Specific Gravity 0.666

METHYL 2-BUTYNOATE, 96% — ITEM 3448

Not on the TSCA inventory.

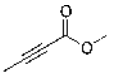
$CH_3C{\equiv}CCOOCH_3$ F.W. 98.10

Assay (GC-FID), 95.0% min
Appearance - Clear, colorless to yellow liquid
Identification by GC/MS - Conforms

CAS # 23326-27-4 DOT 3/III

50491 10 G
50492 50 G
50493 250 G
50494 1 KG

Specific Gravity 0.981



M

2-METHYL-3-BUTYN-2-OL, 98% ITEM 3210

$HC{\equiv}CC(CH_3)_2(OH)$ F.W. 84.13

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 115-19-5 DOT 3/II NFPA # 3-3-0

82051	250 G
82052	1 KG
82053	15 KG
82054	50 KG
82055	170 KG

Specific Gravity 0.862

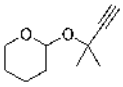
2-METHYL-3-BUTYN-2-YL 2-TETRAHYDROPYRANYL ETHER, 98% ITEM 5185

$C_{10}H_{16}O_2$ F.W. 168.24

Assay 98%

CAS # 27943-46-0 DOT NR

Please Inquire For Sizes



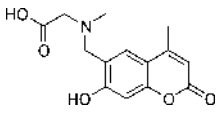
METHYL CALCEIN BLUE ITEM 335

B-Methylumbelliferonemethylene-N-methylglycine. Metallofluorochromic indicator for EDTA titrations. D.H. Wilkins, Anal. Chim. Acta., 23,309 (1960).

$C_{10}H_7O_3CH_2N(CH_3)CH_2CO_2H$ F.W. 277.28

CAS # 81028-96-8 DOT NR

50521	1 G
50522	5 G



3-METHYLCARBONYLPHENYLACETYLENE

See 3-Acetylphenylacetylene, 98%

4-METHYLCARBONYLPHENYLACETYLENE

See 4-Acetylphenylacetylene, 98%

METHYL CELLOSOLVE

See 2-Methoxyethanol

1-METHYL-1,4-CYCLOHEXADIENE, 97% ITEM 3211

Not on the TSCA inventory.

$C_6H_7CH_3$ F.W. 94.16

Assay (GC-FID) - 96.5% min. Identification by GC/MS - Conforms
Inhibitor (BHT), Confirm presence Color - 50 APHA max.
Clarity / Form - Clear Liquid

CAS # 4313-57-9 DOT 3/II

82063	5 G
82061	25 G
82062	100 G
82064	1 KG
82065	15 KG

Specific Gravity 0.838

METHYLCYCLOHEXANE, 99% ITEM 4658

$C_6H_{11}CH_3$ F.W. 98.19

Assay (GC-FID), 98.5% min Appearance - Clear, colorless liquid

CAS # 108-87-2 DOT 3/II

16251	50 ML
16252	250 ML
16253	1 L
16254	4 L
16255	20 L

Specific Gravity 0.775

METHYLDIGLYCOL

See Diethylene Glycol Monomethyl Ether, 98%

METHYLENE BLUE ITEM 145

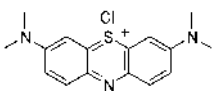
Oxidation-reduction indicator

$C_{16}H_{18}N_3ClS{\bullet}3H_2O$ F.W. 373.91

Suitabiliy as an indicator - Pass Test

CAS # 7220-79-3 DOT NR NFPA # 1-0-0

50601	25 G
50602	100 G



M

METHYLENE BLUE SOLUTION. 0.05% AQUEOUS — ITEM 2081

$C_{16}H_{18}N_3ClS•3H_2O$ F.W. 373.91

Suitability as indicator Pass Test

CAS # 7220-79-3 DOT NR

24801 500 ML

Specific Gravity 1.000

METHYLENE BLUE, ZINC SALT — ITEM 1171

$C_{32}H_{36}Cl_2N_6S_2•ZnCl_2•H_2O$ F.W. 794.02

Clarity of solution Pass Test Suitability as indicator Pass Test

CAS # 26283-09-0 DOT NR

50611 25 G
50612 100 G

METHYLENE CHLORIDE

See Dichloromethane

METHYL ETHYL KETONE, VERITAS® ULTIMATE — ITEM 5572

2-butanone

$CH_3COC_2H_5$ F.W. 72.11

Assay 99.5%
Color (APHA) 10 max
UV cut-off 329 nm
UV at 340 nm 0.1 AU max
UV at 400 nm 0.01 AU max
Residue after evaporation 0.0003%
Titrable acid 0.0005 meq/g
UV at 335 nm 0.4 AU max
UV at 350 nm 0.01 AU max
Water 0.05%

CAS # 78-93-3 DOT 3/II NFPA # 1-3-0

18091 4 L
18092 4 X 4 L

Specific Gravity 0.807

METHYL ETHYL KETONE, DISTILLED IN GLASS — ITEM 1980

2-Butanone

$CH_3COC_2H_5$ F.W. 72.11

Assay 99.0% min. (GLC)
Water 0.08%
UV Absorbance @335 0.40 max.
Residue after evaporation 0.0003%
UV Absorbance @340, 350 or 375 0.10 max.
UV Absorbance @329 1.00 max.

CAS # 78-93-3 DOT 3/II NFPA # 1-3-0

50653 1 L
50654 6 X 1 L
50651 4 L
50652 4 X 4 L

Specific Gravity 0.807

METHYL ETHYL KETONE, REAGENT (ACS) — ITEM 959

2-Butanone

$CH_3COC_2H_5$ F.W. 72.11

Assay 99.0% min.
Titrable acid 0.0005 meq/g
Color(APHA) 15 max.
Residue after evaporation 0.0025%
Water 0.2%

CAS # 78-93-3 DOT 3/II NFPA # 1-3-0

50641 500 ML
50642 4 L
50643 4 X 4 L

Specific Gravity 0.805

METHYL FORMATE, 97% — ITEM 5438

$HCOOCH_3$ F.W. 60.05

Assay (GC-FID), 96.5% min
Appearance - Clear, colorless liquid

CAS # 107-31-3 DOT 3/I

16231 100 ML
16232 500 ML

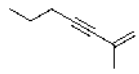
2-METHYL-1-HEPTEN-3-YNE — ITEM 3892

Not on the TSCA inventory.

$CH_3(CH_2)_2C≡CC(CH_3)=CH_2$ F.W. 108.18

CAS # 17669-40-8

Please Inquire For Sizes



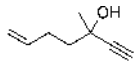
3-METHYL-6-HEPTEN-1-YN-3-OL — ITEM 3893

Not on the TSCA inventory.

$HC≡CC(OH)(CH_3)(CH_2)_2CH=CH_2$ F.W. 124.18

CAS # 51193-99-8

Please Inquire For Sizes



M

6-METHYL-6-HEPTEN-4-YN-2-OL ITEM 3894

Not on the TSCA inventory.

$CH_2=C(CH_3)C\equiv CCH_2CH(OH)CH_3$ F.W. 124.18

CAS # 20937-57-9

Please Inquire For Sizes

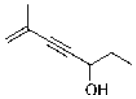
6-METHYL-6-HEPTEN-4-YN-3-OL ITEM 3895

Not on the TSCA inventory.

$CH_2=C(CH_3)C\equiv CCH(OH)CH_2CH_3$ F.W. 124.18

CAS # 95764-76-4

Please Inquire For Sizes



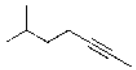
6-METHYL-2-HEPTYNE ITEM 3896

Not on the TSCA inventory.

$(CH_3)_2CH(CH_2)_2C\equiv CCH_3$ F.W. 110.20

CAS # 51065-64-6 DOT 3/III

Please Inquire For Sizes



6-METHYL-3-HEPTYNE, 98% ITEM 3897

Not on the TSCA inventory.

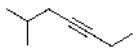
$(CH_3)_2CHCH_2C\equiv CCH_2CH_3$ F.W. 110.20

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 54050-92-9 DOT 3/III

17231	5 G
17232	25 G
17233	100 G
17234	1 KG

Specific Gravity 0.742



METHYL 2-HEPTYNOATE ITEM 3898

Not on the TSCA inventory.

$CH_3C\equiv C(CH_2)_3COOCH_3$ F.W. 140.18

CAS # 18937-78-5

Please Inquire For Sizes

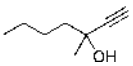
3-METHYL-1-HEPTYN-3-OL ITEM 3899

Not on the TSCA inventory.

$HC\equiv CC(CH_3)(OH)(CH_2)_3CH_3$ F.W. 126.20

CAS # 17356-17-1

Please Inquire For Sizes



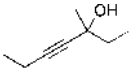
3-METHYL-4-HEPTYN-3-OL ITEM 3900

Not on the TSCA inventory.

$CH_3CH_2C(OH)(CH_3)C\equiv CCH_2CH_3$ F.W. 126.20

CAS # 71065-39-9

Please Inquire For Sizes



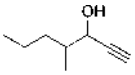
4-METHYL-1-HEPTYN-3-OL ITEM 3901

Not on the TSCA inventory.

$HC\equiv CCH(OH)CH(CH_3)(CH_2)_2CH_3$ F.W. 126.20

CAS # 87777-46-6

Please Inquire For Sizes



M

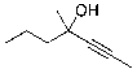
4-METHYL-2-HEPTYN-4-OL — ITEM 3902

Not on the TSCA inventory.

$CH_3C{\equiv}CC(OH)(CH_3)CH_2CH_2CH_3$ F.W. 126.20

CAS # 4376-16-3

Please Inquire For Sizes



2-METHYL-1-HEXENE, 97% — ITEM 3212

Not on the TSCA inventory.

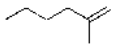
$CH_3(CH_2)_3C(CH_3)=CH_2$ F.W. 98.19

Assay (GC-FID), 96.5% min
Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 6094-02-6 DOT 3/II NFPA # 1-3-0

82071 10 G
82072 50 G

Specific Gravity 0.697



2-METHYL-1-HEXEN-3-YNE, 98% — ITEM 3214

Preserved with BHT. Product requires refrigeration. Not on the TSCA inventory.

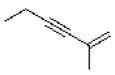
$CH_3CH_2C{\equiv}CC(CH_3)=CH_2$ F.W. 94.16

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 23056-94-2 DOT 9/III

82093 5 G
82091 25 G
82092 100 G

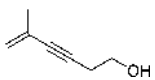
Specific Gravity 0.757



5-METHYL-5-HEXEN-3-YN-1-OL — ITEM 3903

Not on the TSCA inventory.

$HOCH_2CH_2C{\equiv}CC(CH_3)=CH_2$ F.W. 110.16



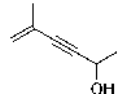
5-METHYL-5-HEXEN-3-YN-2-OL — ITEM 3904

Not on the TSCA inventory.

$CH_3CH(OH)C{\equiv}CC(CH_3)=CH_2$ F.W. 110.16

CAS # 68017-33-4

Please Inquire For Sizes



2-METHYL-3-HEXYNE — ITEM 3905

Not on the TSCA inventory.

$(CH_3)_2CHC{\equiv}CCH_2CH_3$ F.W. 96.17

CAS # 36566-80-0 DOT 3/II

50732 10 G

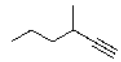
3-METHYL-1-HEXYNE — ITEM 3906

Not on the TSCA inventory.

$HC{\equiv}CCH(CH_3)(CH_2)_2CH_3$ F.W. 96.17

CAS # 40276-93-5 DOT 3/II

Please Inquire For Sizes



5-METHYL-1-HEXYNE, 98% — ITEM 3907

Not on the TSCA inventory.

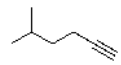
$HC{\equiv}C(CH_2)_2CH(CH_3)_2$ F.W. 96.17

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms
Color - Colorless to yellow
Clarity / Form - Clear, liquid

CAS # 2203-80-7 DOT 3/II

Please Inquire For Sizes

Specific Gravity 0.735



M

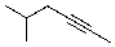
5-METHYL-2-HEXYNE — ITEM 3908

Not on the TSCA inventory.

$(CH_3)_2CHCH_2C{\equiv}CCH_3$ F.W. 96.17

CAS # 53566-37-3 DOT 3/II

Please Inquire For Sizes



METHYL 2-HEXYNOATE — ITEM 3909

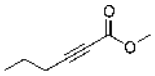
Not on the TSCA inventory.

$CH_3(CH_2)_2C{\equiv}CCOOCH_3$ F.W. 126.16

CAS # 18937-79-6 DOT NR

50741	5 G
50742	25 G

Specific Gravity 0.946



METHYL 5-HEXYNOATE, 95% — ITEM 3215

Not on the TSCA inventory

$HC{\equiv}C(CH_2)_3COOCH_3$ F.W. 126.16

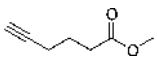
Assay (GC-FID), 94% min
Color - Colorless to yellow

Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 77758-51-1 DOT NR

82101	5 G
82102	25 G
82103	100 G
82104	500 G

Specific Gravity 0.967



2-METHYL-3-HEXYN-2-OL, 98% — ITEM 3379

Not on the TSCA inventory.

$(CH_3)_2C(OH)C{\equiv}CCH_2CH_3$ F.W. 112.17

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless to yellow liquid

Identification by GC/MS - Conforms

CAS # 5075-33-2 DOT 3/III

83731	10 G
83732	50 G

Specific Gravity 0.856

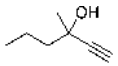
3-METHYL-1-HEXYN-3-OL — ITEM 3911

Not on the TSCA inventory.

$HC{\equiv}CC(OH)(CH_3)CH_2CH_2CH_3$ F.W. 112.17

CAS # 4339-05-3

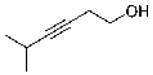
Please Inquire For Sizes



5-METHYL-3-HEXYN-1-OL — ITEM 3913

Not on the TSCA inventory.

$HOCH_2CH_2C{\equiv}CCH(CH_3)_2$ F.W. 112.17



METHYL 4-HYDROXYBENZOATE, 99% — ITEM 2555

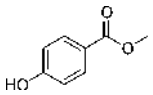
Methyl Paraben

$HOC_6H_4CO_2CH_3$ F.W. 152.15

Assay 99% min.

CAS # 99-76-3 DOT NR NFPA # 1-1-0

50661	250 G
50662	1 KG



4-METHYL-1-IODOPENTANE

See 1-Iodo-4-Methylpentane

M

METHYL ISOBUTYL KETONE

See 4-Methyl-2-Pentanone

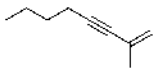
2-METHYL-1-OCTEN-3-YNE ITEM 3914

Not on the TSCA inventory.

$CH_3(CH_2)_3C{\equiv}CC(CH_3){=}CH_2$ F.W. 122.21

CAS # 17603-76-8

Please Inquire For Sizes



7-METHYL-1-OCTYNE ITEM 3916

Not on the TSCA inventory.

$HC{\equiv}C(CH_2)_4CH(CH_3)_2$ F.W. 124.23

Please Inquire For Sizes

7-METHYL-3-OCTYNE ITEM 3917

Not on the TSCA inventory.

$CH_3CH_2C{\equiv}C(CH_2)_2CH(CH_3)_2$ F.W. 124.23

CAS # 37050-06-9

Please Inquire For Sizes

METHYL 2-OCTYNOATE, 98% ITEM 3918

$CH_3(CH_2)_4C{\equiv}CCOOCH_3$ F.W. 154.21

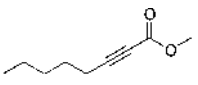
Assay (GC-FID), 97.5% min
Color - Colorless to yellow

Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 111-12-6

21431	5 G
21432	25 G
21433	100 G

Specific Gravity 0.920



2-METHYL-5-OCTYN-4-OL, 98% ITEM 3216

Not on the TSCA inventory

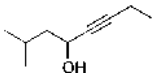
$CH_3CH_2C{\equiv}CCH(OH)CH_2CH(CH_3)_2$ F.W. 140.22

Assay (GC-FID), 97.5% min

CAS # 60657-70-7 DOT 9/III

82111	10 G
82112	50 G

Specific Gravity 0.855

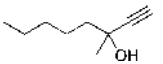


3-METHYL-1-OCTYN-3-OL ITEM 3919

$HC{\equiv}CC(OH)(CH_3)(CH_2)_4CH_3$ F.W. 140.22

CAS # 23580-51-0

Please Inquire For Sizes



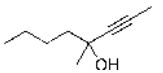
4-METHYL-2-OCTYN-4-OL ITEM 3920

Not on the TSCA inventory.

$CH_3C{\equiv}CC(OH)(CH_3)(CH_2)_3CH_3$ F.W. 140.22

CAS # 74514-59-3

Please Inquire For Sizes



METHYL ORANGE, REAGENT (ACS) ITEM 694

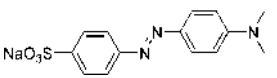
$C_{14}H_{14}N_3O_3S\ Na$ F.W. 327.34

Clarity of solution - pass test

Visual transition pH 3.2-4.4, pink-yellow

CAS # 547-58-0 DOT 6.1/III NFPA # 2-0-0

51002	100 G
51003	500 G



M

METHYL ORANGE SOLUTION, 0.05% AQUEOUS — ITEM 2083

$C_{14}H_{14}N_3O_3SNa$ F.W. 327.34

Visual transition pH 3.2-4.4, red-yellow

CAS # 547-58-0 DOT NR NFPA # 1-0-0

24821	500 ML

Specific Gravity 1.000

METHYL ORANGE / XYLENE CYANOLE SOLUTION — ITEM 1130

Methyl Orange 0.1%, Xylene Cyanole 0.26%

Visual transition pH 2.9-4.6, lavender-green

DOT NR

51011	500 ML

Specific Gravity 1.000

3-METHYL-3-OXETANEMETHANOL, 98% — ITEM 3217

Not on the TSCA inventory.

$C_5H_{10}O_2$ F.W. 102.13

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear to hazy, colorless liquid

CAS # 3143-02-0 DOT 9/III

82121	25 G
82122	100 G
82123	500 G
82125	4 KG
82124	15 KG

Specific Gravity 1.024

METHYL PARABEN

See Methyl 4-Hydroxybenzoate, 99%

METHYL 10,12-PENTACOSADIYNOATE, 98% — ITEM 3218

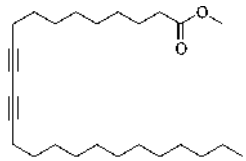
Requires refrigeration. Not on the TSCA inventory.

$CH_3(CH_2)_{11}C{\equiv}CC{\equiv}C(CH_2)_8COOCH_3$ F.W. 388.61

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms

CAS # 120650-77-3 DOT 9/III

82131	2 G
82132	10 G



2-METHYL-2,4-PENTANEDIOL, 99% — ITEM 2992

Hexylene glycol

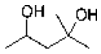
$CH_3CH(OH)CH_2C(OH)(CH_3)_2$ F.W. 118.17

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 107-41-5 DOT NR

50691	1 L
50692	6 X 1 L
50693	4 L
50694	4 X 4 L

Specific Gravity 0.921



3-METHYL-1-PENTANOL, 97% — ITEM 3219

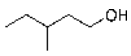
$CH_3CH_2CH(CH_3)CH_2CH_2OH$ F.W. 102.17

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
H2O (KF), 0.5% max Color - Colorless
Clarity / Form - Clear, liquid

CAS # 589-35-5 DOT 3/III

82141	25 G
82142	100 G

Specific Gravity 0.823



M

3-METHYL-2-PENTANONE, 97% ITEM 3220

Not on the TSCA inventory.

$CH_3CH_2CH(CH_3)COCH_3$ F.W. 100.16

Assay (GC-FID), 96.5% min

CAS # 565-61-7 DOT 3/II

82153	5 G
82151	25 G
82152	100 G

Specific Gravity 0.815

4-METHYL-2-PENTANONE, REAGENT (ACS) ITEM 960

Methyl Isobutyl Ketone, MIBK

$(CH_3)_2CHCH_2COCH_3$ F.W. 100.16

Appearance-pass test
Color (APHA) 15 max.
Residue after evaporation 0.005%
Assay 98.5% min.
Titrable acid 0.002 meq/g
Water 0.1%

CAS # 108-10-1 DOT 3/II NFPA # 2-3-1

50671	500 ML
50672	4 L
50673	4 X 4 L

Specific Gravity 0.795

2-METHYL-1-PENTEN-3-YNE ITEM 3922

Not on the TSCA inventory.

$H_2C=C(CH_3)C\equiv CCH_3$ F.W. 80.13

CAS # 926-55-6 DOT 3/II

Please Inquire For Sizes

Specific Gravity 0.752

3-METHYL-1-PENTEN-4-YN-3-OL ITEM 3449

Not on the TSCA inventory.

$H_2C=CHC(OH)(CH_3)C\equiv CH$ F.W. 96.13

CAS # 3230-69-1 DOT 3/III

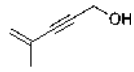
50721	10 G
50722	50 G

Specific Gravity 0.890

4-METHYL-4-PENTEN-2-YN-1-OL ITEM 3923

Not on the TSCA inventory.

$HOCH_2C\equiv CC(CH_3)=CH_2$ F.W. 96.13



3-METHYL-1-PENTYNE, 97% ITEM 3421

Not on the TSCA inventory.

$CH_3CH_2CH(CH_3)C\equiv CH$ F.W. 82.15

Assay (GC-FID), 96.5% min
Color - Colorless
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 922-59-8 DOT 3/II

50711	10 G
50712	50 G

Specific Gravity 0.704

4-METHYL-1-PENTYNE, 98% ITEM 3398

Not on the TSCA inventory.

$(CH_3)_2CHCH_2C\equiv CH$ F.W. 82.15

Assay (GC-FID), 97.5% min

CAS # 7154-75-8 DOT 3/II

89561	10 G
89562	50 G
89563	250 G

Specific Gravity 0.709

M

4-METHYL-2-PENTYNE, 97% ITEM 3925

Not on the TSCA inventory.

$CH_3C{\equiv}CCH(CH_3)_2$ F.W. 82.15

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 21020-27-9 DOT 3/II

16821	10 G
16822	50 G

Specific Gravity 0.716

METHYL 2-PENTYNOATE, 98% ITEM 3926

Not on the TSCA inventory.

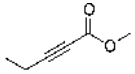
$CH_3C{\equiv}CCH_2COOCH_3$ F.W. 112.13

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Color - < 150 APHA Appearance - Clear liquid

CAS # 24342-04-9 DOT 3/III

21031	10 G
21032	50 G

Specific Gravity 0.963



2-METHYL-3-PENTYN-2-OL, 99% ITEM 3927

Not on the TSCA inventory.

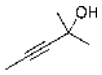
$CH_3C(OH)(CH_3)C{\equiv}CCH_3$ F.W. 98.15

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms
H2O (KF), 0.5% max Appearance - Clear, colorless to yellow liquid

CAS # 590-38-5 DOT 3/III

15111	5 G
15112	25 G
15113	100 G

Specific Gravity 0.873



3-METHYL-1-PENTYN-3-OL, 98+% ITEM 3222

$CH_3CH_2C(OH)(CH_3)C{\equiv}CH$ F.W. 98.15

Assay (GC-FID), 98.0% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 77-75-8 DOT 3/III

82171	100 G
82172	500 G
82173	2 KG
82174	15 KG
82175	49 KG
82176	175 KG

Specific Gravity 0.869

4-METHYL-1-PENTYN-3-OL, 98% ITEM 3223

Not on the TSCA inventory.

$(CH_3)_2CHCH(OH)C{\equiv}CH$ F.W. 98.15

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
KF (H2O), 0.5% max Appearance - Clear, colorless to yellow liquid

CAS # 565-68-4 DOT 3/III

82181	10 G
82182	50 G

Specific Gravity 0.929

4-(METHYLPHENYL) ACETYLENE

See 4-Ethynyltoluene, 97%

METHYL PHENYL ACETYLENE

See 1-Phenyl-1-Propyne

METHYL PHENYL KETONE

See Acetophenone, 98%

2-METHYL-1-PROPANOL

See Isobutyl Alcohol

2-METHYL-2-PROPANOL

See tert-Butyl Alcohol

M

N-METHYLPROPARGYLAMINE, 98% ITEM 3928

Not on the TSCA inventory.

$HC{\equiv}CCH_2NH(CH_3)$ F.W. 69.11

Assay (GC-FID), 97.5% min
H2O (KF), 4.0% max
Clarity / Form - Clear, liquid

Identification by GC/MS - Conforms
Color - Colorless to amber

CAS # 35161-71-8 DOT 3/8/II

15132	5 G
15133	25 G
15134	100 G
15135	500 G
15136	3 KG
15137	16 KG

Specific Gravity 0.819

METHYL PROPIOLATE, 98% ITEM 3225

Not on the TSCA Inventory.

$HC{\equiv}CCOOCH_3$ F.W. 84.07

Assay (GC-FID), 97.5% min

CAS # 922-67-8 DOT 3/II

82201	10 G
82202	50 G

Specific Gravity 0.945

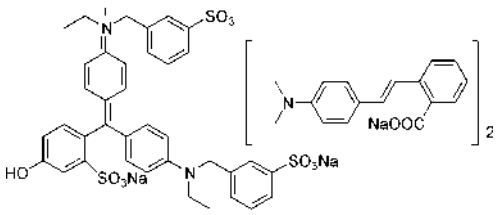
METHYL PURPLE INDICATOR SOLUTION ITEM 2084

Visual transition pH 4.8-5.4, purple-green

CAS # 1340-02-9 DOT NR

24831	500 ML

Specific Gravity 1.000



1-METHYL-2-PYRROLIDONE, REAGENT (ACS) ITEM 2289

N-Methyl Pyrrolidone

C_5H_9NO F.W. 99.13

Assay 99.0% min
Free amines (as CH3NH2) 0.01%
Chloride 0.0001%

Color (APHA) 50
Water 0.05%

CAS # 872-50-4 DOT NR NFPA # 2-2-0

51131	500 ML
51132	4 L

Specific Gravity 1.026

N-METHYL PYRROLIDONE

See 1-Methyl-2-Pyrrolidone

METHYL RED, SODIUM SALT, REAGENT (ACS) ITEM 695

$C_{15}H_{14}N_3O_2Na$ F.W. 291.29

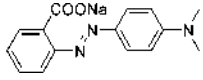
Water soluble indicator
Clarity of aqueous solution - Pass test

Clarity of alcohol solution - Pass test
Visual transition pH 4.2-6.2, pink-yellow

CAS # 845-10-3 DOT NR NFPA # 2-0-0

51101	10 G
51102	25 G
51103	100 G

Specific Gravity 1.000



METHYL RED SOLUTION, 0.1% AQUEOUS ITEM 2085

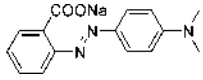
$C_{15}H_{14}N_3O_2Na$ F.W. 291.29

Visual transition pH 4.2-6.2, pink-yellow

CAS # 845-10-3 DOT NR

24841	500 ML

Specific Gravity 1.000



M

METHYLSTYRENE, CIS-BETA-

See cis-1-Propenylbenzene, 95%

METHYL SULFOXIDE, Distilled in quartz solvent ITEM 9610

Dimethyl sulfoxide; DMSO

$(CH_3)_2SO$ F.W. 78.13

Assay 99.5% min.

CAS # 67-68-5 DOT NR NFPA # 1-1-0

T **51162** 500 ML
T **51161** 2 L
T = FEP Bottle

Specific Gravity 1.101

METHYL SULFOXIDE, REAGENT (ACS) ITEM 961

Dimethyl Sulfoxide, DMSO

$(CH_3)_2SO$ F.W. 78.13

Appearance - Clear, colorless liquid
Residue after evaporation 0.01%
H2O (KF), 0.1% max
Assay (GC-FID), 99.9% min
Titrable acid, 0.001 meq/g

CAS # 67-68-5 DOT NR NFPA # 1-1-0

51151 500 ML
51153 4 L
51155 20 L

Specific Gravity 1.095

METHYLTHYMOL BLUE, SODIUM SALT, REAGENT (ACS) ITEM 962

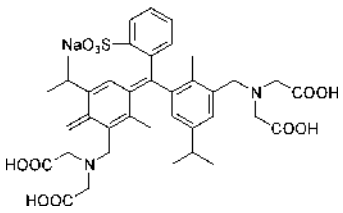
Water soluble chelometric indicator

$C_{37}H_{40}N_2O_{13}SNa_4$ F.W. 844.74

Clarity of solution - Pass test
Visual transition pH 6.5-8.5, yellow-blue
Suitability as a metal indicator - Pass test

CAS # 1945-77-3 DOT NR

51201 5 G
51202 25 G



METHYLTRIBUTYLAMMONIUM CHLORIDE

See Aliquat 175

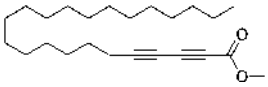
METHYL 2,4-TRICOSADIYNOATE ITEM 5224

Not on the TSCA inventory.

$CH_3(CH_2)_{17}C{\equiv}CC{\equiv}CCOOCH_3$ F.W. 360.57

DOT NR

Please Inquire For Sizes



METHYL 10,12-TRICOSADIYNOATE, 97% ITEM 3226

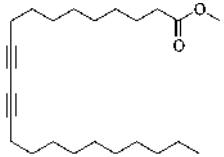
Not on the TSCA inventory.

$CH_3(CH_2)_9C{\equiv}CC{\equiv}C(CH_2)_8COOCH_3$ F.W. 360.57

Assay (GC-FID by Esterification), 96.5% min
Identification by GC/MS - Conforms

CAS # 145609-79-6 DOT 9/III

82211 2 G
82212 10 G



METHYLTRIDODECYLAMMONIUM CHLORIDE

See Tridodecylmethylammonium Chloride, 98%

2-METHYL-4-TRIMETHYLSILYL-1-BUTEN-3-YNE, 97% ITEM 3227

Not on the TSCA inventory.

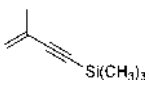
$(CH_3)_3SiC{\equiv}CC(CH_3){=}CH_2$ F.W. 138.28

Assay (GC-FID), 96.5% min

CAS # 18387-60-5 DOT 9/III

82221 10 G
82222 50 G

Specific Gravity 0.776



M

2-METHYL-4-TRIMETHYLSILYL-3-BUTYN-2-OL, 98% ITEM 3228

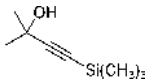
Not on the TSCA inventory.

$(CH_3)_3SiC{\equiv}CC(OH)(CH_3)_2$ F.W. 156.30

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms

CAS # 5272-33-3 DOT 9/III

82231 10 G
82232 50 G



3-METHYL-3-TRIMETHYLSILYLOXY-1-BUTYNE, 97% ITEM 3229

Requires refrigeration. Not on the TSCA inventory.

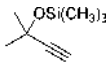
$HC{\equiv}CC(OSi(CH_3)_3)(CH_3)_2$ F.W. 156.30

Assay (GC-FID), 96.5% min

CAS # 17869-77-1 DOT 3/II

82241 10 G
82242 50 G

Specific Gravity 0.808



3-METHYL-1-TRIMETHYLSILYL-1-PENTYN-3-OL (±), 98% ITEM 3231

Not on the TSCA inventory.

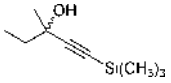
$CH_3CH_2C(OH)(CH_3)C{\equiv}CSi(CH_3)_3$ F.W. 170.33

Assay (GC-FID), 97.5% min

CAS # 17889-43-9 DOT 9/III

82251 5 G
82252 50 G

Specific Gravity 0.844



4-METHYLUMBELLIFERONE

See 7-Hydroxy-4-Methylcoumarin

METHYLUMBELLIFERONEMETHYLENE-N-METHYLGLYCINE

See Methyl Calcein Blue

METHYL 10-UNDECYNOATE, 98% ITEM 3232

Not on the TSCA inventory.

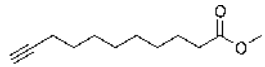
$HC{\equiv}C(CH_2)_8COOCH_3$ F.W. 196.29

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 2777-66-4 DOT 9/III

82261 5 G
82262 25 G

Specific Gravity 0.908



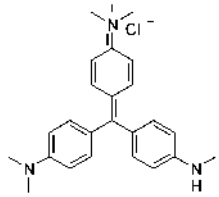
METHYL VIOLET, REAGENT ITEM 1172

$C_{24}H_{28}ClN_3$ F.W. 393.97

Visual transition pH 0.0-1.6, yellow-blue

CAS # 8004-87-3 DOT NR

51221 25 G
51222 100 G



METHYL VIOLET SOLUTION, 0.02% AQUEOUS ITEM 2086

$C_{24}H_{28}ClN_3$ F.W. 393.97

Visual transition pH 0.0-1.6, yellow-blue

CAS # 8004-87-3 DOT NR

24851 500 ML

Specific Gravity 1.000

MIBK

See 4-Methyl-2-Pentanone

MILK SUGAR

See Lactose, Monohydrate

MODIFIED STARCH

See Vitex

MOHR'S SALT

See Ferrous Ammonium Sulfate

MOLECULAR SIEVE, 3A, 4-8 MESH BEADS — ITEM 2709

CAS # 12736-96-8 DOT NR

88851	500 G
88852	2.5 KG

MOLECULAR SIEVE, 3A, 8-12 MESH BEADS — ITEM 963

8-12 Mesh

CAS # 12736-96-8 DOT NR NFPA # 0-0-0

51251	500 G
51252	2.5 KG
51253	10 KG

MOLECULAR SIEVE, 3A, POWDER, NOT ACTIVATED — ITEM 2710

CAS # 12736-96-8 DOT NR

88861	500 G
88862	2.5 KG

MOLECULAR SIEVE, 4A, 4-8 MESH BEADS — ITEM 2711

4-8 Mesh

CAS # 1344-00-9 DOT NR NFPA # 0-0-0

88871	500 G
88872	2.5 KG

MOLECULAR SIEVE, 4A, 8-12 MESH BEADS — ITEM 964

8-12 Mesh

CAS # 1344-00-9 DOT NR NFPA # 0-0-0

51261	500 G
51262	2.5 KG
51263	10 KG

MOLECULAR SIEVE, 4A, POWDER, ACTIVATED — ITEM 2712

CAS # 1344-00-9 DOT NR

88881	500 G
88882	2.5 KG

MOLECULAR SIEVE, 5A, 4-8 MESH BEADS — ITEM 2713

CAS # 1344-02-1 DOT NR

88891	500 G
88892	2.5 KG

MOLECULAR SIEVE, 5A, 8-12 MESH BEADS — ITEM 965

8-12 Mesh

CAS # 1344-02-1 DOT NR NFPA # 0-0-0

51271	500 G
51272	2.5 KG
51273	10 KG

MOLECULAR SIEVE, 5A, POWDER, NOT ACTIVATED — ITEM 2714

CAS # 1344-02-1 DOT NR

88901	500 G
88902	2.5 KG

MOLECULAR SIEVE, 13X, 4-8 MESH BEADS — ITEM 2715

CAS # 1344-00-9 DOT NR

88911	500 G
88912	2.5 KG

MOLECULAR SIEVE, 13X, 8-12 MESH BEADS — ITEM 1067

8-12 Mesh

CAS # 1344-00-9 DOT NR

51281	500 G
51282	2.5 KG
51283	10 KG

MOLECULAR SIEVE, 13X, POWDER, NOT ACTIVATED — ITEM 2716

CAS # 1344-00-9 DOT NR

88921	500 G
88922	2.5 KG

MOLYBDATE, 1,000 ppm, ION CHROMATOGRAPHY STANDARD SOLUTION — ITEM 3764

Concentration (as MoO4) 1,000 ± 10 ug/mL Matrix: Na_2MoO_4, water

DOT NR

23911 100 ML
23912 500 ML

Specific Gravity 1.000

MOLYBDENUM, 99.99% — ITEM A5085

Powder

Mo F.W. 95.94

CAS # 7439-98-7 DOT 4.1/III NFPA # 1-2-1

51361 50 G

MOLYBDENUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1769

Concentration 10,000 ± 100 ug/ml Matrix: 5% nitric acid w/trace HF
NIST Traceable

DOT 8/II NFPA # 2-0-1

22690 100 ML
22692 500 ML

Specific Gravity 1.030

MOLYBDENUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1768

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid w/trace HF
NIST Traceable

DOT 8/II NFPA # 2-0-1

22680 100 ML
22682 500 ML

Specific Gravity 1.030

MOLYBDENUM, 1,000 ppm STANDARD SOLUTION — ITEM 1568

AA, colorimetric or volumetric standard

Concentration 1,000 ± 10 ug/ml 5% Nitric acid w/trace HF
NIST Traceable

DOT 8/II NFPA # 2-0-1

70380 100 ML
70382 500 ML

Specific Gravity 1.000

MOLYBDENUM BROMIDE, 99.5% — ITEM 1464

$MoBr_3$ F.W. 335.65

CAS # 13446-57-6 DOT NR

51391 25 G

MOLYBDENUM (III) CHLORIDE, 99% — ITEM A5160

$MoCl_3$ F.W. 202.30

CAS # 13478-18-7 DOT NR

51421 10 G

MOLYBDENUM (IV) OXIDE — ITEM A5118

MoO_2 F.W. 127.94
Assay 99%

CAS # 18868-43-4 DOT NR

51451 100 G

MOLYBDENUM OXIDE

See Molybdenum Trioxide

MOLYBDENUM SULFIDE, 98% — ITEM 1468

Typical median particle size is about 30 microns.

MoS_2 F.W. 160.06
Assay 98%

CAS # 1317-33-5 DOT NR

51492 50 G
51491 250 G

Specific Gravity 1.300

MOLYBDENUM TRIOXIDE, 99.99+% — ITEM 5050

Molybdic anhydride

MoO_3 F.W. 143.94
Assay (metals basis) 99.99+% min.

CAS # 1313-27-5 DOT NR

87461 5 G
87462 25 G

MOLYBDENUM TRIOXIDE, REAGENT (ACS) — ITEM 696

MoO_3 F.W. 143.94

Assay 99.5% min
Chloride 0.002%
Arsenate, phosphate, and silicate 0.001%
Sulfate 0.02%
Heavy metals 0.005%
Insoluble in dilute NH4OH 0.01%
Nitrate - Pass Test
Phosphate 0.0005%
Ammonium 0.002%

CAS # 1313-27-5 DOT NR NFPA # 2-0-0

51301 100 G
51302 500 G
51303 2.5 KG
51305 10 KG
51306 50 KG

M

MOLYBDENUM TRIOXIDE, REAGENT ITEM 6961

MoO_3 F.W. 143.94

Assay 99.5% min.
Chloride 0.002%
Arsenate, phosphate and silicate 0.02%
Sulfate 0.02%
Heavy metals 0.005%
Insoluble in dil. NH4OH 0.02%
Nitrate - pass test
Phosphate 0.0005%
Ammonium 0.01%

CAS # 1313-27-5 DOT NR

51320	100 G
51321	500 G
51322	2.5 KG

MOLYBDIC ACID, 85%, REAGENT (ACS) ITEM 966

Assay (MoO3) 85.0% min
Chloride 0.002%
Phosphate 0.0005%
Heavy metals (as Pb) 0.003%
Insoluble in NH4OH 0.01%
Arsenate, phosphate and silicate 0.001%
Sulfate 0.2%

CAS # 7782-91-4 DOT NR NFPA # 2-0-0

51331	100 G
51332	500 G
51333	2.5 KG
51334	10 KG
51335	50 KG

MOLYBDIC ANHYDRIDE

See Molybdenum Trioxide

MONOCHLOROACETIC ACID

See Chloroacetic Acid

MONOETHANOLAMINE

See 2-Aminoethanol, Reagent (ACS)

MONOGLYME

See 1,2-Dimethoxyethane

MONOSODIUM FERRIC EDTA

See Ferric Sodium Ethylenediaminetetraacetate

MOPS

See 3-(N-Morpholino)propanesulfonic Acid

MOPS, SODIUM SALT ITEM 5440

3-(N-Morpholino)propanesulfonic acid sodium salt

$C_4H_8ONC_3H_6SO_3Na$ F.W. 231.25

Assay (Dried Basis) 99.5%
Loss on Drying 2% max.

CAS # 71119-22-7 DOT NR

17531	50 G
17532	500 G
17533	2.5 KG
17534	10 KG

MORPHOLINE, REAGENT (ACS) ITEM 967

C_4H_9ON F.W. 87.12

Assay (GC-FID), 99.0% min
Boiling range 126.0-130.0 C
Color (APHA) 15

CAS # 110-91-8 DOT 8/3/I NFPA # 2-3-1

51572	500 ML
51574	4 L

Specific Gravity 1.007

2-(N-MORPHOLINO)ETHANESULFONIC ACID, MONOHYDRATE ITEM 2364

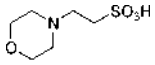
MES

$C_4H_8ONC_2H_4SO_3H \bullet H_2O$ F.W. 213.26

Assay (by titration) 99% min
Water
pH of 5% solution 3.1-3.5

CAS # 145224-94-8 DOT NR

27581	10 G
27583	100 G
27584	500 G
27585	2.5 KG
27586	10 KG



3-(N-MORPHOLINO) PROPANESULFONIC ACID ITEM 2363

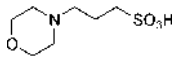
MOPS

$C_4H_8ONC_3H_6SO_3H$ F.W. 209.27

Assay (by titration) 99% min.
pH of 5% solution 3.0 - 4.0

CAS # 1132-61-2 DOT NR

27571	10 G
27572	50 G



M

3-(N-MORPHOLINO)PROPANESULFONIC ACID SODIUM SALT

See MOPS, Sodium Salt

M-PHENANTHROLINE

See 1,7-Phenanthroline

MTBE

See Methyl tert-Butyl Ether

MULTIELEMENT STANDARD, ALKALIS & ALKALINE EARTHS — ITEM 1841

100 ppm each element in 5% Nitric Acid.

Barium 100 ± 1 ug/mL
Calcium 100 ± 1 ug/mL
Lithium 100 ± 1 ug/mL
Potassium 100 ± 1 ug/mL
Sodium 100 ± 1 ug/mL
Matrix 5% nitric acid
Beryllium 100 ± 1 ug/mL
Cesium 100 ± 1 ug/mL
Magnesium 100 ± 1 ug/mL
Rubidium 100 ± 1 ug/mL
Strontium 100 ± 1 ug/mL
NIST Traceable

DOT 8/III

23450 100 ML
23451 500 ML

Specific Gravity 1.030

MULTIELEMENT STANDARD, COMMON ELEMENTS MIX 1 — ITEM 1864

100 ppm each element in 5% Nitric Acid.

Cadmium 100 ± 1 ug/mL
Chromium 100 ± 1 ug/mL
Iron 100 ± 1 ug/mL
Nickel 100 ± 1 ug/mL
Zinc 100 ± 1 ug/mL
NIST Traceable
Cobalt 100 ± 1 ug/mL
Copper 100 ± 1 ug/mL
Manganese 100 ± 1 ug/mL
Vanadium 100 ± 1 ug/mL
Matrix 5% nitric acid

DOT 8/III

23411 100 ML
23412 500 ML

Specific Gravity 1.030

MULTIELEMENT STANDARD, COMMON ELEMENTS MIX 2 — ITEM 1865

100 ppm each element in 5% Nitric Acid with a trace of HF.

Matrix 5% Nitric acid w/tr. HF NIST Traceable

Ag 100 ug/ml
Ca 100 ug/ml
Cu 100 ug/ml
Mg 100 ug/ml
Ni 100 ug/ml
Si 100 ug/ml
V 100 ug/ml
Al 100 ug/ml
Co 100 ug/ml
Fe 100 ug/ml
Mn 100 ug/ml
P 100 ug/ml
Sn 100 ug/ml
Zn 100 ug/ml
B 100 ug/ml
Cr 100 ug/ml
K 100 ug/ml
Na 100 ug/ml
Pb 100 ug/ml
Ti 100 ug/ml

DOT 8/III

23421 100 ML
23422 500 ML

Specific Gravity 1.030

MULTIELEMENT STANDARD, COMMON AND TRANSITION ELEMENTS — ITEM 1866

Matrix: 5% nitric acid with trace tartaric acid.

Matrix 5% nitric acid, 0.2% hydrofluoric acid NIST Traceable

Ag 100 ug/ml
Ba 100 ug/ml
Ca 1000 ug/ml
Co 100 ug/ml
K 1000 ug/ml
Mn 100 ug/ml
Ni 100 ug/ml
Se 100 ug/ml
V 100 ug/ml
Al 100 ug/ml
Be 100 ug/ml
Cd 100 ug/ml
Cu 100 ug/ml
Li 100 ug/ml
Mo 100 ug/ml
Pb 100 ug/ml
Sr 100 ug/ml
Zn 100 ug/ml
As 100 ug/ml
Bi 100 ug/ml
Cr 100 ug/ml
Fe 100 ug/ml
Mg 1000 ug/ml
Na 1000 ug/ml
Sb 100 ug/ml
Tl 100 ug/ml

DOT 8/III NFPA # 3-0-2

23431 100 ML
23432 500 ML

Specific Gravity 1.030

MULTIELEMENT STANDARD, METALLOID/HYDRIDE ELEMENTS — ITEM 1875

100 ppm each element in 20% Hydrochloric Acid with a trace of HF.

Arsenic 100 ± 1 ug/mL
Gallium 100 ± 1 ug/mL
Indium 100 ± 1 ug/mL
Antimony 100 ± 1 ug/mL
Tin 100 ± 1 ug/mL
Thallium 100 ± 1 ug/mL
NIST Traceable
Bismuth 100 ± 1 ug/mL
Germanium 100 ± 1 ug/mL
Lead 100 ± 1 ug/mL
Selenium 100 ± 1 ug/mL
Tellurium 100 ± 1 ug/mL
Matrix 20% HCl w/tr HF

DOT 8/II

23721 100 ML
23722 500 ML

Specific Gravity 1.100

MULTIELEMENT STANDARD, PRECIOUS METALS — ITEM 1844

100 ppm each element in 20% Hydrochloric Acid.

Gold 100 ± 1 ug/mL
Osmium 100 ± 1 ug/mL
Platinum 100 ± 1 ug/mL
Rhodium 100 ± 1 ug/mL
Matrix 20% HCl
Iridium 100 ± 1 ug/mL
Palladium 100 ± 1 ug/mL
Rhenium 100 ± 1 ug/mL
Ruthenium 100 ± 1 ug/mL
NIST Traceable

DOT 8/II NFPA # 3-0-2

23480 100 ML
23481 500 ML

Specific Gravity 1.100

MULTIELEMENT STANDARD, RARE EARTH ELEMENTS — ITEM 1846

100 ppm each element in 5% Nitric Acid.

Matrix 5% Nitric acid NIST Traceable

Ce 100 ug/ml
Dy 100 ug/ml
Er 100 ug/ml
Eu 100 ug/ml
Gd 100 ug/ml
Ho 100 ug/ml
La 100 ug/ml
Lu 100 ug/ml
Nd 100 ug/ml
Pr 100 ug/ml
Sm 100 ug/ml
Sc 100 ug/ml
Tb 100 ug/ml
Tm 100 ug/ml
Yb 100 ug/ml
Y 100 ug/ml

DOT 8/III

23500 100 ML
23501 500 ML

Specific Gravity 1.030

MULTIELEMENT STANDARD, REFRACTORY ELEMENTS I — ITEM 1843

100 ppm each element in 5% Hydrochloric Acid with <0.2% Hydrofluoric Acid.

Aluminum 100 ± 1 ug/mL
Boron 100 ± 1 ug/mL
Hafnium 100 ± 1 ug/mL
Molybdenum 100 ± 1 ug/mL
Niobium 100 ± 1 ug/mL
Phosphorous 100 ± 1 ug/mL
Silicon 100 ± 1 ug/mL
Tantalum 100 ± 1 ug/mL
Titanium 100 ± 1 ug/mL
Tungsten 100 ± 1 ug/mL
Zirconium 100 ± 1 ug/mL
Matrix: 5% hydrochloric acid w/tr HF
NIST Traceable

DOT 8/II

23470 100 ML
23471 500 ML

Specific Gravity 1.020

MULTIELEMENT STANDARD, REFRACTORY ELEMENTS II — ITEM 1874

100 ppm each element in 5% hydrochloric acid with a trace of HF

Aluminum 100 ± 1 ug/mL
Boron 100 ± 1 ug/mL
Chromium 100 ± 1 ug/mL
Hafnium 100 ± 1 ug/mL
Molybdenum 100 ± 1 ug/mL
Niobium 100 ± 1 ug/mL
Silicon 100 ± 1 ug/mL
Tantalum 100 ± 1 ug/mL
Titanium 100 ± 1 ug/mL
Tungsten 100 ± 1 ug/mL
Vanadium 100 ± 1 ug/mL
Zirconium 100 ± 1 ug/mL
Matrix: 5% HCl w/tr HF
NIST Traceable

DOT 8/II

23711 100 ML
23712 500 ML

Specific Gravity 1.020

MULTIELEMENT STANDARD, TRANSITION ELEMENTS — ITEM 1842

100 ppm each element in 5% Nitric Acid.

Cadmium 100 ± 1 ug/mL
Cobalt 100 ± 1 ug/mL
Chromium 100 ± 1 ug/mL
Copper 100 ± 1 ug/mL
Iron 100 ± 1 ug/mL
Manganese 100 ± 1 ug/mL
Nickel 100 ± 1 ug/mL
Silver 100 ± 1 ug/mL
Vanadium 100 ± 1 ug/mL
Zinc 100 ± 1 ug/mL
Matrix 5% nitric acid
NIST Traceable

DOT 8/III

23460 100 ML
23461 500 ML

Specific Gravity 1.030

MULTIELEMENT STANDARD, TRACE ELEMENTS I, for EPA METHOD 600/4-79-020 — ITEM 3515

Matrix 5% nitric acid

Al 500 ppm
As 100 ppm
Be 100 ppm
Cd 25 ppm
Cr 100 ppm
Co 100 ppm
Cu 100 ppm
Fe 100 ppm
Pb 100 ppm
Mn 100 ppm
Hg 5 ppm
Ni 100 ppm
Se 25 ppm
V 250 ppm
Zn 100 ppm

DOT 8/III

23531 100 ML
23532 500 ML

Specific Gravity 1.030

MULTIELEMENT STANDARD, US EPA 23 ELEMENTS — ITEM 1868

100 ppm each element.

Matrix 5% nitric acid w/tr tartaric/tr HF NIST Traceable

Al 100 ug/ml
Sb 100 ug/ml
As 100 ug/ml
Ba 100 ug/ml
Be 100 ug/ml
Ca 100 ug/ml
Cd 100 ug/ml
Co 100 ug/ml
Cr 100 ug/ml
Cu 100 ug/ml
Fe 100 ug/ml
Pb 100 ug/ml
Mg 100 ug/ml
Mn 100 ug/ml
Mo 100 ug/ml
Ni 100 ug/ml
K 100 ug/ml
Se 100 ug/ml
Ag 100 ug/ml
Na 100 ug/ml
Tl 100 ug/ml
V 100 ug/ml
Zn 100 ug/ml

DOT 8/III

23441 100 ML
23442 500 ML

Specific Gravity 1.030

M

MULTIELEMENT STANDARD, US EPA RCRA ELEMENTS — ITEM 1869

100 ppm each element in 5% Nitric Acid.

Silver 100 ± 1 ug/mL
Barium 100 ± 1 ug/mL
Chromium 100 ± 1 ug/mL
Mercury 100 ± 1 ug/mL
Matrix 5% HNO3
Arsenic 100 ± 1 ug/mL
Cadmium 100 ± 1 ug/mL
Lead 100 ± 1 ug/mL
Selenium 100 ± 1 ug/mL
Traceable to NIST

DOT 8/III

23541 100 ML
23542 500 ML

Specific Gravity 1.030

MUREXIDE — ITEM 788

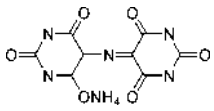
Ammonium purpurate. Indicator for complexometry.

$C_8H_8N_6O_6$ F.W. 284.19

Suitability as complexometric indicator pass test

CAS # 3051-09-0 DOT NR

51601 5 G
51602 25 G



MURIATIC ACID

See Hydrochloric Acid, 37%

NAPHTHALENE, SCINTILLATION GRADE — ITEM 4856

$C_{10}H_8$ F.W. 128.17

Assay (GC) 99.0% min.
IR Spectrum - Conforms to structure
Appearance - White crystals or flakes
Solubility (5% in methanol) - Clear and colorless

CAS # 91-20-3 DOT 4.1/III

15521 25 G
15522 100 G
15523 500 G

NAPHTHALENE, 99%, PURIFIED — ITEM A5184

$C_{10}H_8$ F.W. 128.17

Assay (GC-FID), 98.5% min

CAS # 91-20-3 DOT 4.1/III NFPA # 1-2-0

51651 500 G
51652 2.5 KG

NAPHTHOL BLUE BLACK — ITEM 152

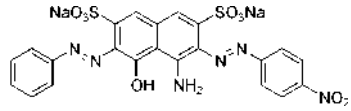
Indicator for iodate and bromate oxidimetry

$C_{22}H_{14}N_6O_9S_2Na_2$ F.W. 616.49

Suitability for use as indicator - Pass test

CAS # 1064-48-8 DOT NR

51701 25 G



NAPHTHOL GREEN B, REAGENT (ACS) — ITEM 1469

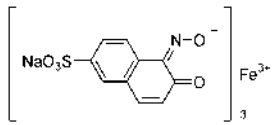
(Acid Green 1, C.I. 10020). Suitable for complexometry.

$Fe(C_{10}H_5NO_5SNa)_3$ F.W. 878.47

Clarity of solution - pass test
Suitability as a mixed indicator - pass test

CAS # 19381-50-1 DOT NR NFPA # 1-0-0

51711 25 G



N-(1-NAPHTHYL)ETHYLENEDIAMINE DIHYDROCHLORIDE, REAGENT (ACS) — ITEM 968

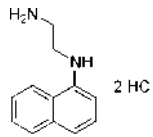
Material is light sensitive, protect from light.

$C_{10}H_7NHCH_2CH_2NH_2 \bullet 2HCl$ F.W. 259.19

Assay (anhydrous basis) 98% min.
Solubility Pass Test
Sensitivity to sulfanilamide Pass Test
Water 5.0% max

CAS # 1465-25-4 DOT NR NFPA # 2-1-1

52051 25 G
52052 100 G
52053 1 KG



NEOCUPROINE

See 2,9-Dimethyl-1,10-Phenanthroline

M

NEODYMIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1771

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III

22710 100 ML
22712 500 ML

Specific Gravity 1.030

NEODYMIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1770

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III

22700 100 ML
22702 500 ML

Specific Gravity 1.030

NEODYMIUM ACETATE, 99.9% — ITEM A5190

$Nd(C_2H_3O_2)_3 \bullet H_2O$ F.W. 339.39
Assay (metals basis) 99.9%

CAS # 6192-13-8 DOT NR

52081 50 G
52082 250 G

NEODYMIUM ACETYLACETONATE — ITEM 5150

Not on the TSCA inventory. For R&D use only.

$Nd(C_5H_7O_2)_3 \bullet XH_2O$ F.W. 441.57 (ANHYD.)
Neodymium content Report Water content Report

CAS # 14589-38-9 DOT NR

12341 10 G
12342 50 G

NEODYMIUM CARBONATE, 99.9% — ITEM A5202

$Nd_2(CO_3)_3 \bullet H_2O$ F.W. 486.52
Assay (metals basis) 99.9% min.

CAS # 5895-46-5 DOT NR

52092 10 G
52091 50 G

NEODYMIUM CHLORIDE, 99.9%, ANHYDROUS — ITEM 5151

$NdCl_3$ F.W. 250.60
Assay (metals basis) 99.9% Neodymium content 55.0-58.7%

CAS # 10024-93-8 DOT NR

12351 5 G
12352 25 G
12353 100 G

NEODYMIUM CHLORIDE, 99.99%, HEXAHYDRATE — ITEM 2221

$NdCl_3 \bullet 6H_2O$ F.W. 358.70
Assay (metals basis) 99.99%

CAS # 13477-89-9 DOT NR

26202 5 G
26201 25 G

NEODYMIUM CHLORIDE, 99.9%, HEXAHYDRATE — ITEM A5208

$NdCl_3 \bullet 6H_2O$ F.W. 358.70
Assay (metals basis) 99.9% min

CAS # 13477-89-9 DOT NR

52101 50 G
52102 250 G
52104 50 KG

NEODYMIUM HYDROXIDE, 99% — ITEM A5229

$Nd(OH)_3 \bullet xH_2O$ F.W. 195.26 (+ XH2O)
Assay (metals basis) 99% min.

CAS # 16469-17-3 DOT NR

52131 25 G

NEODYMIUM NITRATE, 99.99% — ITEM 2222

$Nd(NO_3)_3 \bullet 6H_2O$ F.W. 438.36
Assay (metals basis) 99.99% min Neodymium content 32.0 - 33.7%

CAS # 10045-95-1 DOT 5.1/III

26212 5 G
26211 25 G

NEODYMIUM NITRATE, 99.9% — ITEM A5232

$Nd(NO_3)_3 \bullet 6H_2O$ F.W. 438.36
Assay (metals basis) 99.9% min. Neodymium content 32.0 - 33.7%

CAS # 10045-95-1 DOT 5.1/III

52151 50 G
52152 250 G

NEODYMIUM OXALATE, 99.9% ITEM A5242

$Nd_2(C_2O_4)_3 \bullet 10H_2O$ F.W. 732.71

Assay (metals basis) 99.9%

CAS # 14551-74-7 DOT NR

52181 50 G

NEODYMIUM OXALATE, 99% ITEM A5241

$Nd_2(C_2O_4)_3 \bullet 10H_2O$ F.W. 732.71

Assay (metals basis) 99% min

CAS # 14551-74-7 DOT NR

52171 100 G

NEODYMIUM OXIDE, 99.999% ITEM A5250

Nd_2O_3 F.W. 336.48

CAS # 1313-97-9 DOT NR

52211 20 G

NEODYMIUM OXIDE, 99.99% ITEM 2223

Nd_2O_3 F.W. 336.48

Assay (metals basis) 99.99% min.

CAS # 1313-97-9 DOT NR

26222 5 G
26221 25 G

NEODYMIUM OXIDE, 99.9% ITEM 578

Nd_2O_3 F.W. 336.48

Assay (metals basis) 99.9% min.

CAS # 1313-97-9 DOT NR

52201 25 G
52202 100 G

NEODYMIUM OXYFLUORIDE, 99.9% ITEM A5253

Not on the TSCA inventory.

NdOF F.W. 179.24

Assay (REO metals basis) 99.9%

CAS # 13816-43-8 DOT NR

52231 10 G

NEODYMIUM PERCHLORATE, CRYSTALLINE HYDRATE ITEM 5153

Not on the TSCA inventory. Approximates octahydrate formulation at the time of packaging; ca 24% water. Packaged in vials under nitrogen. Reduced-moisture salt for catalyst applications.

$Nd(ClO_4)_3 \bullet XH_2O$ F.W. 442.53 + H2O

Neodymium content 24.5% min. Insoluble matter 0.01%
Chloride 0.01%

CAS # 13498-06-1 DOT 5.1/II

12371 5 G
12372 25 G
12373 100 G

NEODYMIUM PERCHLORATE, HYDRATED, 50% SOLUTION, REAGENT ITEM 528

$Nd(ClO_4)_3 \bullet 6H_2O$ F.W. 550.69

Neodymium content 12.6-13.6% Insoluble matter 0.01%
Chloride 0.01%

CAS # 17522-69-9 DOT NR

52301 20 G
52302 50 G

NEODYMIUM SULFATE, 99.999% ITEM A5271

$Nd_2(SO_4)_3 \bullet 8H_2O$ F.W. 720.81

CAS # 10101-95-8 DOT NR

52331 10 G

NEODYMIUM SULFATE, 99.99% ITEM 2224

$Nd_2(SO_4)_3 \bullet 8H_2O$ F.W. 720.81

Assay (metals basis) 99.99%

CAS # 10101-95-8 DOT NR

26232 5 G
26231 25 G

NEODYMIUM SULFATE, 99.9% ITEM A5268

$Nd_2(SO_4)_3 \bullet 8H_2O$ F.W. 720.81

CAS # 10101-95-8 DOT NR

52322 25 G
52321 100 G

NEODYMIUM TRIFLATE

See Neodymium Trifluoromethanesulfonate, 98%

NEODYMIUM TRIFLUOROMETHANESULFONATE, 98% — ITEM 3536

Not on the TSCA inventory

$Nd(CF_3SO_3)_3$ F.W. 591.45

Assay 98%

CAS # 34622-08-7 DOT NR

52281	5 G
52282	25 G

NEOHEXENE

See 3,3-Dimethyl-1-Butene, 95%

NEOPENTYL ALCOHOL, 98% — ITEM 2531

$(CH_3)_3CCH_2OH$ F.W. 88.15

Assay (GC-FID), 97.5% min
Color - White to faint yellow
Identification by GC/MS - Conforms
Form - Crystalline cast

CAS # 75-84-3 DOT 4.1/II

52271	25 G
52272	100 G
52273	1 KG
52274	15 KG

Specific Gravity 0.818

NEOPENTYL BROMIDE

See 1-Bromo-2,2-Dimethylpropane

NEOPENTYL CHLORIDE

See 1-Chloro-2,2-Dimethylpropane, 98%

NEOPENTYL IODIDE

See 1-Iodo-2,2-Dimethylpropane, 98%

NESSLER REAGENT, Mercuric Potassium Iodide, Solution — ITEM 969

For ammonia determination. Prepared per ACS Reagent Chemicals, 10th Edition, page 103.

Sensitivity - Pass Test

DOT 6.1/II NFPA # 4-0-3

52341	500 ML

Specific Gravity 1.097

NEW COCCINE

See Brilliant Ponceau

NICKEL, 99.998% POWDER — ITEM A5277

Ni F.W. 58.69

Assay (metals basis) 99.998%

CAS # 7440-02-0 DOT 9/III NFPA # 3-0-0

52371	50 G

NICKEL, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1773

Concentration 10,000 ± 100 ug/ml
NIST Traceable
Matrix: 5% Nitric Acid

DOT 8/III NFPA # 2-0-1

22730	100 ML
22732	500 ML

Specific Gravity 1.030

NICKEL, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1772

Concentration 1,000 ± 10 ug/ml
NIST Traceable
Matrix: 5% Nitric acid

DOT 8/III NFPA # 2-0-1

22720	100 ML
22722	500 ML

Specific Gravity 1.030

NICKEL, 1,000 ppm AA STANDARD SOLUTION — ITEM 755

AA, colorimetric or volumetric standard

Concentration 1,000 ± 10 ug/ml
NIST Traceable
Matrix: <5% Nitric acid

DOT 8/III NFPA # 2-0-1

70250	100 ML
70252	500 ML

Specific Gravity 1.030

NICKEL ACETATE, TETRAHYDRATE, REAGENT — ITEM 970

$Ni(C_2H_3O_2)_2 \cdot 4H_2O$ F.W. 248.87

Assay 98% min.
Chloride 0.001%
Sulfate 0.005%
Copper 0.01%
Lead 0.005%
Insoluble matter 0.005%
Nitrogen compounds 0.005%
Cobalt 0.05%
Iron 0.002%
pH of 5% solution 6.0-7.0

CAS # 6018-89-9 DOT NR NFPA # 3-1-0

52381	100 G
52382	500 G
52384	10 KG

NICKEL ACETYLACETONATE, 90% ITEM A5292

$Ni(C_5H_7O_2)_2$ F.W. 256.91

Assay 90%

CAS # 3264-82-2 DOT NR

52412	25 G
52411	100 G

NICKEL AMMONIUM SULFATE, REAGENT ITEM 971

$Ni(NH_4)_2(SO_4)_2 \bullet 6H_2O$ F.W. 395.00

Assay 98% min.
Chloride 0.001%
Copper 0.002%
Sodium 0.05%
Calcium 0.01%
Insoluble 0.005%
Cobalt 0.01%
Iron 0.001%
Potassium 0.01%
Magnesium 0.01%

CAS # 7785-20-8 DOT NR NFPA # 3-0-0

52406	100 G
52401	500 G
52402	2.5 KG
52403	10 KG

NICKEL BROMIDE, 99.998% ITEM A5322

$NiBr_2 \bullet 3H_2O$ F.W. 272.55

Assay (metals basis) 99.998%

CAS # 7789-49-3 DOT NR

52492	5 G
52491	25 G

NICKEL BROMIDE ITEM A5317

$NiBr_2 \bullet 3H_2O$ F.W. 272.55

Assay 98.0% min

CAS # 7789-49-3 DOT NR

52461	100 G

NICKEL CARBONATE, REAGENT ITEM 1173

Nickel Hydroxide Carbonate

$Ni_3(OH)_4CO_3 \bullet xH_2O$ F.W. 304.18 + XH2O

Assay (Ni) 45-49%
Chloride 0.002%
Cobalt 0.2%
Sodium 0.2%
Magnesium 0.01%
Iron 0.004%
Insoluble in HCl 0.01%
Nitrogen compounds 0.01%
Copper 0.01%
Potassium 0.01%
Calcium 0.005%

CAS # 12607-70-4 DOT NR NFPA # 3-0-0

52425	100 G
52421	500 G
52422	2.5 KG

NICKEL CHLORIDE, ANHYDROUS, 99.99+% ITEM 3638

$NiCl_2$ F.W. 129.62

Assay (metals basis) 99.99+%

CAS # 7718-54-9 DOT 6.1/III

52541	5 G
52542	25 G

NICKEL CHLORIDE, HEXAHYDRATE, 99.998% ITEM A5337

$NiCl_2 \bullet 6H_2O$ F.W. 237.72

Assay (metals basis) 99.998% Nickel content (EDTA titration) 23.0-26.0%

CAS # 7791-20-0 DOT 6.1/III NFPA # 3-0-0

52522	5 G
52521	25 G

NICKEL CHLORIDE, HEXAHYDRATE, REAGENT (ACS) ITEM 5316

$NiCl_2 \bullet 6H_2O$ F.W. 237.72

Assay 97%
Nitrogen compounds (as N) 0.005%
Calcium 0.01%
Copper 0.002%
Lead 0.005%
Manganese 0.002%
Sodium 0.05%
Insoluble matter 0.005%
Sulfate 0.005%
Cobalt 0.1%
Iron 0.002%
Magnesium 0.01%
Potassium 0.01%
Zinc 0.01%

CAS # 7791-20-0 DOT 6.1/III NFPA # 3-0-0

16671	100 G
16672	500 G
16673	2.5 KG
16674	10 KG

NICKEL CHLORIDE, HEXAHYDRATE, PURIFIED ITEM 972

$NiCl_2 \bullet 6H_2O$ F.W. 237.72

Nickel content (by EDTA titration) 23.5-26.7% Insoluble 0.005%

Sulfate 0.005%
Copper 0.002%
Calcium 0.005%
Potassium 0.01%
Cobalt 0.1%
Iron 0.001%
Magnesium 0.005%
Sodium 0.05%

CAS # 7791-20-0 DOT 6.1/III NFPA # 3-0-0

52435	100 G
52431	500 G
52432	2.5 KG
52433	10 KG
52434	50 KG
52436	500 KG

NICKEL DIMETHYLGLYOXIME — ITEM 5154

Not on the TSCA inventory. For R&D use only.

$Ni(C_4H_7N_2O_2)_2$ F.W. 288.93

CAS # 13478-93-8 DOT NR

12381	10 G
12382	50 G

NICKEL HYDROXIDE, 98% — ITEM 5191

$Ni(OH)_2$ F.W. 92.71

Assay (by EDTA titration) 98%

CAS # 12054-48-7 DOT 9/III

12541	250 G
12542	1 KG
12543	5 KG

NICKEL HYDROXIDE CARBONATE

See Nickel Carbonate

NICKEL NITRATE, HEXAHYDRATE, 99.999+% — ITEM 5051

$Ni(NO_3)_2 \bullet 6H_2O$ F.W. 290.81

Assay (metals basis) 99.999+% min.

CAS # 13478-00-7 DOT 5.1/III NFPA # 3-0-1

87471	25 G
87472	100 G

NICKEL NITRATE, HEXAHYDRATE, REAGENT (ACS) — ITEM 5317

$Ni(NO_3)_2 \bullet 6H_2O$ F.W. 290.81

Assay 98.0-102.0%
Chloride 0.002%
Calcium 0.01%
Copper 0.0005%
Lead 0.005%
Manganese 0.002%
Sodium 0.05%
Insoluble matter 0.005%
Sulfate 0.002%
Cobalt 0.1%
Iron 0.001%
Magnesium 0.01%
Potassium 0.01%
Zinc 0.01%

CAS # 13478-00-7 DOT 5.1/III NFPA # 3-0-1

15271	100 G
15272	500 G
15273	2.5 KG
15274	10 KG

NICKEL NITRATE, HEXAHYDRATE, REAGENT — ITEM 973

$Ni(NO_3)_2 \bullet 6H_2O$ F.W. 290.81

Assay 98.0-102.0%
Insoluble 0.005%
Cobalt 0.1%
Iron 0.001%
Manganese 0.002%
Sodium 0.05%
Chloride 0.001%
Calcium 0.005%
Copper 0.001%
Magnesium 0.005%
Potassium 0.01%
Sulfate 0.005%

CAS # 13478-00-7 DOT 5.1/III NFPA # 3-0-1

52470	100 G
52471	500 G
52472	2.5 KG
52473	10 KG
52474	50 KG

NICKEL OXALATE, 99.9% — ITEM 2547

$NiC_2O_4 \bullet 2H_2O$ F.W. 182.74

Assay (metals basis) 99.9% min.

CAS # 547-67-1 DOT NR

62591	50 G

NICKEL OXIDE, 99.999% — ITEM 5052

NiO F.W. 74.71

Assay (metals basis) 99.999% min.

CAS # 1313-99-1 DOT NR NFPA # 2-0-0

87481	10 G
87482	50 G

NICKEL OXIDE, REAGENT — ITEM 1174

Nickel (II) oxide.

NiO F.W. 74.71

Assay 98.0% min.
Nitrogen compounds 0.005%
Cobalt 0.2%
Iron 0.02%
Chloride 0.005%
Sulfate 0.01%
Copper 0.02%
Zinc 0.02%

CAS # 1313-99-1 DOT NR NFPA # 2-0-0

52485	100 G
52481	500 G
52482	2.5 KG

NICKEL OXYHYDROXIDE — ITEM 5600

$NiOOH \bullet xH_2O$ F.W. 108.70

Nickel content 60.0% min.

CAS # 86676-91-7 DOT 5.1/II

Please Inquire For Sizes

NICKEL PERCHLORATE, DEHYDRATED, REAGENT — ITEM 5155

Approximates trihydrate formulation; ca 19% H2O. Reduced-moisture salt to promote synthetic organic reactions, Bartoli, et al., J Org. Chem. (2003), 4611.

$Ni(ClO_4)_2 \bullet 3H_2O$ F.W. 311.70

Nickel content 18.0-20.0%
pH of 5% solution 1-5
Chloride 0.01%
Sulfate 0.005%
Insoluble matter 0.01%

CAS # 13637-71-3 DOT 5.1/II NFPA # 3-0-3

12561	25 G
12562	100 G
12563	500 G

NICKEL PERCHLORATE, HEXAHYDRATE, REAGENT — ITEM 62

$Ni(ClO_4)_2 \bullet 6H_2O$ F.W. 365.70

Nickel content 15.3-17.0%
pH of 5% solution 1-5
Chloride 0.01%
Sulfate 0.005%
Insoluble matter 0.01%

CAS # 13520-61-1 DOT 5.1/II NFPA # 3-0-3

52506	100 G
52501	500 G
52502	2.5 KG
52503	10 KG
52504	50 KG

NICKEL SILICIDE, 99% — ITEM 1479

Ni_2Si F.W. 145.47

CAS # 12059-14-2 DOT NR

52661	25 G

NICKEL STANNATE — ITEM A5409

$NiSnO_3 \bullet 2H_2O$ F.W. 261.43

CAS # 12035-38-0 DOT NR

52581	100 G

NICKEL SULFATE, HEXAHYDRATE, 99.999% — ITEM 5053

$NiSO_4 \bullet 6H_2O$ F.W. 262.84

Assay (metals basis) 99.999% min.

CAS # 10101-97-0 DOT NR NFPA # 3-0-0

87491	10 G
87492	50 G
87493	250 G

NICKEL SULFATE, HEXAHYDRATE, REAGENT (ACS) — ITEM 697

$NiSO_4 \bullet 6H_2O$ F.W. 262.84

Assay 98.0-102.0%
Chloride 0.001%
Calcium 0.005%
Copper 0.005%
Magnesium 0.005%
Potassium 0.01%
Insoluble 0.005%
Nitrogen compounds (as N) 0.002%
Cobalt 0.002%
Iron 0.001%
Manganese 0.002%
Sodium 0.05%

CAS # 10101-97-0 DOT NR NFPA # 3-0-0

52605	100 G
52601	500 G
52602	2.5 KG
52603	10 KG
52604	50 KG

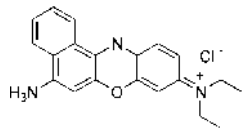
NILE BLUE A CHLORIDE — ITEM 3551

$C_{20}H_{20}N_3OCl$ F.W. 353.85

Visual transition pH 9.4-10.6, blue-red
Identity (AgCl precipitation) - Pass test

CAS # 2381-85-3 DOT NR

52791	5 G
52792	25 G



NILE BLUE A SULFATE — ITEM 267

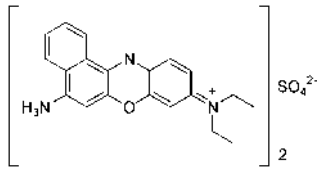
Not on the TSCA inventory.

$(C_{20}H_{20}N_3O)_2SO_4$ F.W. 732.86

Visual transition pH 9.4-10.6, blue-red
Identity (BaSO4 precipitation) - Pass test

CAS # 3625-57-8 DOT NR

52801	10 G
52802	50 G



NINHYDRIN, REAGENT (ACS) ITEM 789

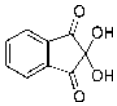
2,2-Dihydroxy-1,3-indanedione;1,2,3-Indanetrione monohydrate. Indicator for amines.

$C_9H_6O_4$ F.W. 178.15

Appearance - White to brownish-white crystals
Identification and melting point - Pass Test
Sensitivity to amino acids - Pass Test
Solubility - Pass Test

CAS # 485-47-2 DOT NR NFPA # 2-1-1

52901 25 G
52902 100 G



NIOBIUM, 10,000 ppm ICP STANDARD SOLUTION ITEM 1775

Concentration 10,000 ± 100 ug/ml
Matrix: 2% Hydrofluoric acid
NIST Traceable

DOT 8/6/II NFPA # 4-0-2

22750 100 ML
22752 500 ML

Specific Gravity 1.010

NIOBIUM, 1,000 ppm ICP STANDARD SOLUTION ITEM 1774

Concentration 1,000 ± 10 ug/ml
Matrix: 2% Hydrofluoric acid
NIST Traceable

DOT 8/6/II NFPA # 4-0-2

22740 100 ML
22742 500 ML

Specific Gravity 1.010

NIOBIUM CARBIDE, 99% ITEM A5454

NbC F.W. 104.92

CAS # 12069-94-2 DOT NR

52951 25 G

NIOBIUM ETHOXIDE, 99.99% ITEM 1673

Pale yellow crystaline

$Nb(C_2H_5O)_5$ F.W. 318.21

Assay (metals basis) 99.99%

CAS # 3236-82-6 DOT 3/II

52981 100 G
52982 500 G

Specific Gravity 1.270

NIOBIUM OXIDE, 99.998% ITEM 5054

Nb_2O_5 F.W. 265.81

Assay (metals basis) 99.998% min.

CAS # 1313-96-8 DOT NR

87501 10 G
87502 50 G

NIOBIUM OXIDE, 99.9% ITEM A5469

Nb_2O_5 F.W. 265.81

CAS # 1313-96-8 DOT NR

52971 25 G

NIOXIME

See 1,2-Cyclohexanedionedioxime

NITRATE, 1,000 ppm, ION CHROMATOGRAPHY STANDARD SOLUTION ITEM 3765

Concentration (as NO3) 1,000 ± 10 ug/mL
Matrix: $NaNO_3$, water

DOT NR

23921 100 ML
23922 500 ML

NITRATE, 1,000 ppm ION STANDARD SOLUTION ITEM 756

IC, colorimetric or volumetric standard

Concentration (as NO3) 1,000 ug/ml
Matrix: Potassium nitrate in water
NIST Traceable

DOT NR

70260 100 ML
70262 500 ML

Specific Gravity 1.000

NITRIC ACID, VERITAS® DOUBLE DISTILLED ITEM 621

Ultra trace metal grade. Low PPT level impurities.Bottled in leached FEP or PFA bottles to reduce bottle impurities.

HNO_3 F.W. 63.01

Assay 68.0% min
Chloride 0.00001%
Heavy Metals 0.000001%
Arsenic 0.0000001%
Residue after ignition 0.00001%
Sulfate 0.00001%
Iron 0.000001%

CAS # 7697-37-2 DOT 8/5.1/II NFPA # 3-0-3

T **53201** 250 ML
T **53202** 500 ML
T **53205** 2 L
T = FEP Bottle

Specific Gravity 1.408

NITRIC ACID, 70%, ENVIRONMENTAL GRADE — ITEM 2543

Trace metal/ICP grade packed in plastic resin bottles to eliminate common metals leached from glass.

HNO_3 F.W. 63.01

Assay 68.0-70.0%
Sulfate 0.00001%
Iron 0.0000001%
Clear, colorless liquid
Chloride 0.00001%
Residue after ignition 0.0001%
Color (APHA) 10 max.

Ag 1 ppb	Al 1 ppb	As 1 ppb
Au 1 ppb	B 5 ppb	Ba 1 ppb
Be 1 ppb	Bi 1 ppb	Ca 5 ppb
Cd 1 ppb	Ce 1 ppb	Co 1 ppb
Cr 1 ppb	Cs 1 ppb	Cu 1 ppb
Dy 1 ppb	Er 1 ppb	Eu 1 ppb
Ga 1 ppb	Gd 1 ppb	Ge 1 ppb
Hf 1 ppb	Hg 2 ppb	Ho 1 ppb
In 1 ppb	Ir 1 ppb	K 1 ppb
La 1 ppb	Li 1 ppb	Lu 1 ppb
Mg 1 ppb	Mn 1 ppb	Mo 1 ppb
Na 3 ppb	Nd 1 ppb	Ni 1 ppb
Pb 1 ppb	Pd 1 ppb	Pr 1 ppb
Pt 1 ppb	Rb 1 ppb	Rh 1 ppb
Ru 1 ppb	Sb 1 ppb	Sc 1 ppb
Se 1 ppb	Sm 1 ppb	Sn 1 ppb
Sr 1 ppb	Tb 1 ppb	Te 1 ppb
Th 1 ppb	Ti 1 ppb	U 1 ppb
V 1 ppb	W 1 ppb	Y 1 ppb
Yb 1 ppb	Zn 1 ppb	Zr 1 ppb

CAS # 7697-37-2 DOT 8/5.1/II NFPA # 3-0-3

53079	500 ML PPQ
53080	6 X 500 ML
53086	2.2 L
53087	4 X 2.2 L
53088	6 X 2.2 L

Specific Gravity 1.408

NITRIC ACID, 69%, VERITAS® REDISTILLED — ITEM 63

Trace metal grade. Low ppb metal impurities. Note: Results reported at time of bottling in glass. The levels of Al, B, Ca, K, Mg, Mn, Na, and Si will increase over time.

HNO_3 F.W. 63.01

Assay 68.0% min
Sulfate 0.00001%
Heavy Metals 0.000001%
Residue after ignition 0.0001%
Chloride 0.00001%
Arsenic 0.0000001%
Iron 0.0000001%
Color (APHA) 10 max

Al 5 ppb	Ag 1 ppb	Au 1 ppb
B 10 ppb	Ba 2 ppb	Be 1 ppb
Bi 1 ppb	Ca 10 ppb	Cd 1 ppb
Ce 1 ppb	Co 1 ppb	Cr 1 ppb
Cs 1 ppb	Cu 2 ppb	Dy 1 ppb
Er 1 ppb	Eu 1 ppb	Fe 5 ppb
Ga 1 ppb	Gd 1 ppb	Ge 1 ppb
Hg 2 ppb	Ho 1 ppb	In 1 ppb
Ir 1 ppb	K 2 ppb	La 1 ppb
Li 1 ppb	Lu 1 ppb	Mg 2 ppb
Mn 1 ppb	Mo 1 ppb	Na 10 ppb
Nd 1 ppb	Ni 1 ppb	Os 1 ppb
Pb 1 ppb	Pd 1 ppb	Pr 1 ppb
Pt 1 ppb	Rb 1 ppb	Rh 1 ppb
Ru 1 ppb	Sb 1 ppb	Sc 1 ppb
Se 1 ppb	Sm 1 ppb	Sn 1 ppb
Sr 1 ppb	Tb 1 ppb	Te 1 ppb
Th 1 ppb	Ti 1 ppb	U 1 ppb
V 1 ppb	W 1 ppb	Y 1 ppb
Yb 1 ppb	Zn 5 ppb	Zr 1 ppb

CAS # 7697-37-2 DOT 8/5.1/II NFPA # 3-0-3

53101	500 ML	
53102	2.5 L	
53103	6 X 500 ML	
53104	4 X 2.5 L	
53105	6 X 2.5 L	
53106	5 ML	Min 30
53101	2.5 L PVC	
53109	4X2.5L PVC	
53110	6X2.5L PVC	
53100	2 ML	Min 30

Specific Gravity 1.408

NITRIC ACID, SUPERIOR REAGENT (ACS) — ITEM 2587

Metals analysis reported on certificate in ppm.

HNO_3 F.W. 63.01

Assay 68-70%
Residue after ignition 0.0005%
Chloride 0.00005%
Arsenic 0.01 ppm
Appearance (colorless) - Pass test
Color (APHA) 10
Sulfate 0.0001%
Heavy metals (as Pb) 0.2 ppm

Ag 0.1 ppm	Al 0.1 ppm	Au 0.1 ppm
Ba 0.1 ppm	Ca 0.2 ppm	Cd 0.1 ppm
Cr 0.1 ppm	Cu 0.1 ppm	Fe 0.2 ppm
Hg 0.1 ppm	K 0.3 ppm	Li 0.1 ppm
Mg 0.1 ppm	Mn 0.1 ppm	Mo 0.1 ppm
Na 0.3 ppm	Ni 0.1 ppm	Pb 0.1 ppm
Sr 0.1 ppm	Zn 0.1 ppm	

CAS # 7697-37-2 DOT 8/5.1/II NFPA # 3-0-3

53031	500 ML
53032	6 X 500 ML
53033	2.5 L
53034	4 X 2.5 L
53035	6 X 2.5 L
53037	2.5L PVC
53038	4X2.5L PVC
53032	6X2.5L PVC

Specific Gravity 1.408

NITRIC ACID, REAGENT GRADE, LOW LEAD — ITEM 2514

Also meets ACS Specifications

HNO_3 F.W. 63.01

Assay 68.0-70.0%
Appearance (colorless) Pass test
Color (APHA) 10 max.
Sulfate 0.0001%
Heavy metals (as Pb) 0.2 ppm
Lead 0.1 ppm
Residue after ignition 0.0005%
Chloride 0.00005%
Arsenic 0.000001%
Iron 0.2 ppm

CAS # 7697-37-2 DOT 8/5.1/II NFPA # 3-0-3

53051	500 ML
53053	6 X 500 ML
53052	2.5 L
53054	4 X 2.5 L
53057	2.5 L PVC
53058	4X2.5L PVC

Specific Gravity 1.408

NITRIC ACID, REAGENT (ACS) ITEM 626

HNO_3 F.W. 63.01

Assay 68.0 - 70.0%
Residue after ignition 0.0005%
Chloride 0.00005%
Arsenic 0.000001%
Iron 0.00002%
Appearance (colorless) Pass test
Color(APHA) 10 max.
Sulfate 0.0001%
Heavy metals 0.00002%

CAS # 7697-37-2 DOT 8/5.1/II NFPA # 3-0-3

53001	500 ML
53003	6 X 500 ML
53002	2.5 L
53004	4 X 2.5 L
53005	6 X 2.5 L
53018	2.5 L PVC
53019	4X2.5L PVC
53003	6X2.5L PVC

Specific Gravity 1.408

NITRIC ACID, SOLUTION, 1.0 N ITEM 1176

1.0 mol/L

HNO_3 F.W. 63.01

Exact normality 1.000 ± 0.002

CAS # 7697-37-2 DOT 8/III NFPA # 3-0-2

53223	2.5 L
53224	6 X 2.5 L

Specific Gravity 1.030

NITRIC ACID, SOLUTION, 15% W/W ITEM 1278

HNO_3 F.W. 63.01

Appearance colorless
Residue after ignition 0.0005%
Chloride 0.00005%
Arsenic 0.000001%
Iron 0.00002%
Assay 14.0-16.0%
Color (APHA) 10 max.
Sulfate 0.0001%
Heavy Metals (Pb) 0.00002%

CAS # 7697-37-2 DOT 8/II NFPA # 3-0-2

53231	2.5 L
53232	4 X 2.5 L
53233	6 X 2.5 L

Specific Gravity 1.080

NITRIC ACID, SOLUTION, 10% W/W ITEM 1280

HNO_3 F.W. 63.01

Appearance colorless
Residue after ignition 0.0005%
Chloride 0.00005%
Arsenic 0.000001%
Iron 0.00002%
Assay 9.0-11.0%
Color (APHA) 10 max.
Sulfate 0.0001%
Heavy Metals (Pb) 0.00002%

CAS # 7697-37-2 DOT 8/III NFPA # 3-0-2

53241	2.5 L
53242	4 X 2.5 L
53243	6 X 2.5 L

Specific Gravity 1.054

NITRIC ACID, 90% FUMING, REAGENT (ACS) ITEM 2423

HNO_3 F.W. 63.01

Assay 90.0% min.
Heavy metals (as Pb) 0.0005%
Dissolved oxides (as N2O3) 0.1%
Chloride 0.00007%
Sulfate 0.0005%
Dilution - passes test
Residue after ignition 0.002%
Arsenic 0.00003%
Iron 0.0002%

CAS # 7697-37-2 DOT 8/5.1/I NFPA # 4-0-1

88350	400 ML
88353	2.5 L PVC

Specific Gravity 1.500

NITRITE, 1,000 ppm, ION CHROMATOGRAPHY STANDARD SOLUTION ITEM 3766

Refrigerate to maximize shelf life

Concentration (as nitrite) 1,000 ± 10 ug/mL Matrix: sodium nitrite, water

DOT NR

23931	100 ML
23932	500 ML

Specific Gravity 1.000

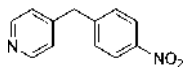
4-(p-NITROBENZYL)-PYRIDINE, REAGENT ITEM 1106

$NO_2C_6H_4CH_2C_5H_4N$ F.W. 214.23

Melting Point 70-72C

CAS # 1083-48-3 DOT NR

53521	5 G
53522	25 G
53523	100 G
53524	1 KG
53525	5 KG



NITROGEN, 1,000 ppm, ION CHROMATOGRAPHY STANDARD ITEM 2323

1000 ppm nitrogen from ammonium chloride, 1220 ppm ammonia.

Concentration (as N) 1,000 ± 10 ug/ml Matrix: Ammonium chloride in water
NIST Traceable

DOT NR

53540	100 ML
53542	500 ML

Specific Gravity 1.000

1-NITRO-2-PENTYLOXYBENZENE

See 2-Nitrophenyl Pentyl Ether

2-NITROPHENOL, 98% ITEM 4080

o-Nitrophenol

$HOC_6H_4NO_2$ F.W. 139.11

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Yellow to yellow/tan solid

CAS # 88-75-5 DOT 6.1/III

17331 25 G
17332 100 G
17333 500 G

o-NITROPHENOL SOLUTION, 0.3% AQUEOUS ITEM 2089

$C_6H_5O_3N$ F.W. 139.11

Visual transition pH 5.0-6.2, colorless-yellow

CAS # 88-75-5 DOT NR

24881 500 ML

Specific Gravity 1.000

p-NITROPHENOL SOLUTION, 0.1% AQUEOUS ITEM 2090

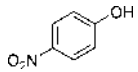
$C_6H_5O_3N$ F.W. 139.11

Visual transition pH 5.5-6.6, colorless-yellow

CAS # 100-02-7 DOT NR

24891 500 ML

Specific Gravity 1.000



4-(p-NITROPHENYLAZO)-RESORCINOL ITEM 977

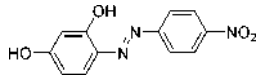
Azo Violet

$NO_2C_6H_4N{=}NC_6H_3(OH)_2$ F.W. 259.23

Sensitivity to magnesium -pass test Visual transition pH 11.0-13.0, y ellow-violet

CAS # 74-39-5 DOT NR

53831 25 G



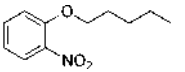
2-NITROPHENYL PENTYL ETHER ITEM 2926

1-Nitro-2-pentyloxybenzene. Used in chemical sensing.

$O_2NC_6H_4O(CH_2)_4CH_3$ F.W. 209.24

CAS # 39645-91-5

28671 1 ML
28672 5 ML
28673 25 ML



NITROSO R SALT ITEM 539

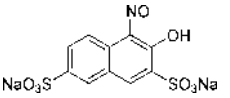
3-Hydroxy-4-Nitroso-2,7-Naphthalenedisulfonic Acid Disodium Salt.
Reagent for the colorimetric determination of cobalt.

$HOC_{10}H_4(NO)(SO_3Na)_2$ F.W. 377.26

Suitability as indicator - Pass Test

CAS # 525-05-3 DOT NR

54001 100 G
54002 1 KG
54003 5 KG



6,8-NONADECADIYNOIC ACID, 98% ITEM 3233

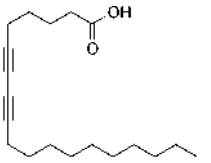
Not on the TSCA inventory.

$CH_3(CH_2)_9C{\equiv}CC{\equiv}C(CH_2)_4COOH$ F.W. 290.45

Assay (GC-FID by Esterification), 97.5% min Identification by GC/MS - Conforms
Appearance - Off-white to light blue flakes

CAS # 174063-97-9 DOT 9/III

82271 1 G
82272 5 G



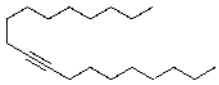
9-NONADECYNE — ITEM 3929

Not on the TSCA inventory.

$CH_3(CH_2)_7C{\equiv}C(CH_2)_8CH_3$ F.W. 264.48

CAS # 106073-69-2 DOT NR

Please Inquire For Sizes



1,8-NONADIYNE, 98% — ITEM 3234

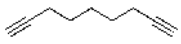
$HC{\equiv}C(CH_2)_5C{\equiv}CH$ F.W. 120.20

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 2396-65-8 DOT 3/III NFPA # 1-2-0

82281	10 G
82282	50 G
82283	1 KG

Specific Gravity 0.816



1-NONENE, 98% — ITEM 3235

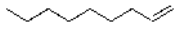
$CH_3(CH_2)_6CH{=}CH_2$ F.W. 126.24

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 124-11-8 DOT 3/III

82293	5 G
82291	25 G
82292	100 G
82293	1 KG

Specific Gravity 0.730



cis-4-NONENE, 97% — ITEM 3237

Not on the TSCA inventory.

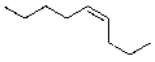
$CH_3(CH_2)_3CH{=}CH(CH_2)_2CH_3$ F.W. 126.24

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 10405-84-2 DOT 3/III

82311	10 G
82312	50 G

Specific Gravity 0.730



trans-4-NONENE, 96% — ITEM 3238

Not on the TSCA inventory.

$CH_3(CH_2)_3CH{=}CH(CH_2)_2CH_3$ F.W. 126.24

Assay (GC-FID), 95% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 2198-23-4 DOT 3/III

82321	5 G
82322	25 G

Specific Gravity 0.732

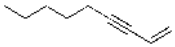
1-NONEN-3-YNE — ITEM 3930

Not on the TSCA inventory.

$H_2C{=}CHC{\equiv}C(CH_2)_4CH_3$ F.W. 122.21

CAS # 57223-18-4

Please Inquire For Sizes



1-NONEN-4-YNE — ITEM 3931

Not on the TSCA inventory.

$H_2C{=}CHCH_2C{\equiv}C(CH_2)_3CH_3$ F.W. 122.21

CAS # 31508-12-0 DOT 3/III

Please Inquire For Sizes

NONYL BROMIDE

See 1-Bromononane, 98%

NONYL IODIDE

See 1-Iodononane

1-NONYNE, 99% — ITEM 3239

$CH_3(CH_2)_6C{\equiv}CH$ F.W. 124.23

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms

CAS # 3452-09-3 DOT 3/III

82331	10 G
82332	50 G

Specific Gravity 0.757

2-NONYNE, 98% — ITEM 3932

Not on the TSCA inventory

$CH_3C{\equiv}C(CH_2)_5CH_3$ F.W. 124.23

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 19447-29-1 DOT 3/III

17221	10 G
17222	50 G
17223	1 KG

Specific Gravity 0.766

3-NONYNE, 98% — ITEM 3933

Not on the TSCA inventory.

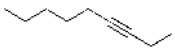
$CH_3(CH_2)_4C{\equiv}CCH_2CH_3$ F.W. 124.23

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 20184-89-8

17071	5 G
17072	25 G
17073	100 G

Specific Gravity 0.759



4-NONYNE, 98% — ITEM 3240

Not on the TSCA inventory.

$CH_3(CH_2)_3C{\equiv}C(CH_2)_2CH_3$ F.W. 124.23

Assay (GC-FID), 97.5% min
Color - Colorless
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 20184-91-2 DOT 3/III

82341	10 G
82342	50 G

Specific Gravity 0.757

2-NONYN-1-OL, 98% — ITEM 3242

Not on the TSCA inventory.

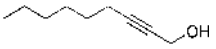
$CH_3(CH_2)_5C{\equiv}CCH_2OH$ F.W. 140.23

Assay (GC-FID), 97.5% min
H2O (KF), 0.5% max
Identification by GC/MS - Conforms

CAS # 5921-73-3 DOT NR

82361	10 G
82362	50 G
82363	250 G
82364	1 KG
82365	3 KG
82366	17 KG
82367	55 KG

Specific Gravity 0.873



3-NONYN-1-OL, 98% — ITEM 3243

Not on the TSCA inventory.

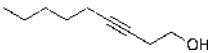
$CH_3(CH_2)_4C{\equiv}CCH_2CH_2OH$ F.W. 140.23

Assay (GC-FID), 97.5% min
H2O (KF), 0.5% max
Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 31333-13-8 DOT NR

82371	10 G
82372	50 G
82373	250 G

Specific Gravity 0.888



5-NONYN-3-OL — ITEM 3934

Not on the TSCA inventory.

$CH_3CH_2CH(OH)CH_2C{\equiv}C(CH_2)_2CH_3$ F.W. 140.23

CAS # 53723-19-6

Please Inquire For Sizes

NUCLEODUR® 100-10 — ITEM 2853

Unmodified, spherical silica. 100 angstrom pore size, 10 micron particle size. M-N # 713610.

CAS # 7631-86-9 DOT NR

84511	10 G
84512	50 G
84513	100 G

NUCLEODUR® 100-20 ITEM 2855

Unmodified, spherical silica. 100 angstrom pore size, 20 micron particle size. M-N # 713600.

CAS # 7631-86-9 DOT NR

84531	10 G
84532	50 G
84533	100 G

NUCLEODUR® 100-30 ITEM 2856

Unmodified, spherical silica. 100 angstrom pore size, 30 micron particle size. M-N # 713630.

CAS # 7631-86-9 DOT NR

84541	10 G
84542	50 G
84543	100 G

NUCLEODUR® 100-50 ITEM 2857

Unmodified, spherical silica. 100 angstrom pore size, 50 micron particle size. M-N # 713551.

CAS # 7631-86-9 DOT NR

84551	10 G
84552	50 G
84553	100 G

NUCLEOSIL® 50-3 ITEM 2829

Unmodified, spherical silica. 50 angstrom pore size, 3 micron particle size.

CAS # 7631-86-9 DOT NR

84271	10 G

NUCLEOSIL® 50-5 ITEM 2830

Unmodified, spherical silica. 50 angstrom pore size, 5 micron particle size.

CAS # 7631-86-9 DOT NR

84281	10 G
84282	50 G
84283	100 G

NUCLEOSIL® 50-7 ITEM 2831

Unmodified, spherical silica. 50 angstrom pore size, 7 micron particle size.

CAS # 7631-86-9 DOT NR

84291	10 G
84292	50 G
84293	100 G

NUCLEOSIL® 50-10 ITEM 2832

Unmodified, spherical silica. 50 angstrom pore size, 10 micron particle size.

CAS # 7631-86-9 DOT NR

84300	1 G
84301	10 G
84302	50 G
84303	100 G

NUCLEOSIL® 100-3 ITEM 2833

Unmodified, spherical silica. 100 angstrom pore size, 3 micron particle size.

CAS # 7631-86-9 DOT NR

84311	10 G
84312	50 G
84313	100 G

NUCLEOSIL® 100-5 ITEM 2834

Unmodified, spherical silica. 100 angstrom pore size, 5 micron particle size.

CAS # 7631-86-9 DOT NR

84321	10 G
84322	50 G
84323	100 G

NUCLEOSIL® 100-7 ITEM 2835

Unmodified, spherical silica. 100 angstrom pore size, 7 micron particle size.

CAS # 7631-86-9 DOT NR

84331	10 G
84332	50 G
84333	100 G

NUCLEOSIL® 100-10 ITEM 2836

Unmodified, spherical silica. 100 angstrom pore size, 10 micron particle size.

CAS # 7631-86-9 DOT NR

84341	10 G
84342	50 G
84343	100 G

NUCLEOSIL® 120-3 ITEM 2837

Unmodified, spherical silica. 120 angstrom pore size, 3 micron particle size.

CAS # 7631-86-9 DOT NR

84351	10 G
84352	50 G
84353	100 G

NUCLEOSIL® 120-5 ITEM 2838

Unmodified, spherical silica. 120 angstrom pore size, 5 micron particle size.

CAS # 7631-86-9 DOT NR

84361	10 G
84362	50 G
84363	100 G

NUCLEOSIL® 120-7 ITEM 2839

Unmodified, spherical silica. 120 angstrom pore size, 7 micron particle size.

CAS # 7631-86-9 DOT NR

84371	10 G
84372	50 G
84373	100 G

NUCLEOSIL® 120-10 ITEM 2840

Unmodified, spherical silica. 120 angstrom pore size, 10 micron particle size.

CAS # 7631-86-9 DOT NR

84381	10 G
84382	50 G
84383	100 G

NUCLEOSIL® 300-5 ITEM 2841

Unmodified, spherical silica. 300 angstrom pore size, 5 micron particle size.

CAS # 7631-86-9 DOT NR

84391	10 G
84392	50 G
84393	100 G

NUCLEOSIL® 300-7 ITEM 2842

Unmodified, spherical silica. 300 angstrom pore size, 7 micron particle size.

CAS # 7631-86-9 DOT NR

84401	10 G
84402	50 G
84403	100 G

NUCLEOSIL® 300-10 ITEM 2843

Unmodified, spherical silica. 300 angstrom pore size, 10 micron particle size.

CAS # 7631-86-9 DOT NR

84413	1 G

NUCLEOSIL® 500-5 ITEM 2844

Unmodified, spherical silica. 500 angstrom pore size, 5 micron particle size.

CAS # 7631-86-9 DOT NR

84421	10 G
84422	50 G
84423	100 G

NUCLEOSIL® 500-7 ITEM 2845

Unmodified, spherical silica. 500 angstrom pore size, 7 micron particle size.

Median particle size 7.0 ± 0.30 um Mean pore size 520 ± 50 A

CAS # 7631-86-9 DOT NR

84430	1 G
84431	10 G
84432	50 G
84433	100 G

NUCLEOSIL® 500-10 ITEM 2846

Unmodified, spherical silica. 500 angstrom pore size, 10 micron particle size.

CAS # 7631-86-9 DOT NR

84440	1 G
84441	10 G
84442	50 G
84443	100 G

NUCLEOSIL® 1000-5 ITEM 2847

Unmodified, spherical silica. 1000 angstrom pore size, 5 micron particle size.

CAS # 7631-86-9 DOT NR

84451	10 G
84452	50 G
84453	100 G

NUCLEOSIL® 1000-7 ITEM 2848

Unmodified, spherical silica. 1000 angstrom pore size, 7 micron particle size.

CAS # 7631-86-9 DOT NR

84461	10 G
84462	50 G
84463	100 G

NUCLEOSIL® 1000-10 ITEM 2849

Unmodified, spherical silica. 1000 angstrom pore size, 10 micron particle size.

CAS # 7631-86-9 DOT NR

84470	1 G
84471	10 G
84472	50 G
84473	100 G

NUCLEOSIL® 4000-5 ITEM 2850

Unmodified, spherical silica. 4000 angstrom pore size, 5 micron particle size.

CAS # 7631-86-9 DOT NR

84481	10 G
84482	50 G
84483	100 G

NUCLEOSIL® 4000-7 ITEM 2851

Unmodified, spherical silica. 4000 angstrom pore size, 7 micron particle size.

CAS # 7631-86-9 DOT NR

84490	1 G
84491	10 G
84492	50 G
84493	100 G

NUCLEOSIL® 4000-10 ITEM 2852

Unmodified, spherical silica. 4000 angstrom pore size, 10 micron particle size.

Median particle size 9.70 ± 0.60 um Pore volume 0.55-0.80 mL/g

CAS # 7631-86-9 DOT NR

84501	10 G
84502	50 G
84503	100 G

5,7-OCTADECADIYNOIC ACID, 97% ITEM 3245

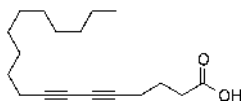
Requires refrigeration. Not on the TSCA inventory.

$CH_3(CH_2)_9C{\equiv}CC{\equiv}C(CH_2)_3COOH$ F.W. 276.42

Assay (GC-FID by Esterification), 96.5% min
Assay (HPLC area % at 226 nm), 96.5% min
Identification by GC/MS - Conforms
Insolubles / Polymer, 1.5% max
Appearance - White to dark blue solid / flakes

CAS # 136667-54-4 DOT NR

82391	1 G
82392	5 G



10,12-OCTADECADIYNOIC ACID, 95% ITEM 3246

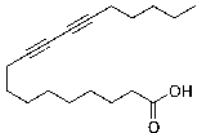
Requires refrigeration. Not on the TSCA inventory.

$CH_3(CH_2)_4C{\equiv}CC{\equiv}C(CH_2)_8COOH$ F.W. 276.42

Assay (GC-FID by Esterification), 94.0% min
Identification by GC/MS - Conforms
Appearance - White to light blue solid

CAS # 7333-25-7 DOT NR

82401	2 G
82402	10 G



OCTADECANOIC ACID

See Stearic Acid, 95%

1-OCTADECENE, 90% ITEM 3429

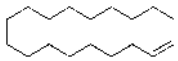
$CH_3(CH_2)_{15}CH{=}CH_2$ F.W. 252.49

Assay (GC-FID), 88% min
Appearance - Clear, colorless liquid

CAS # 112-88-9 DOT NR

54041	1 L
54042	6 X 1 L
54043	4 L
54044	4 X 4 L

Specific Gravity 0.788



OCTADECYL IODIDE

See 1-Iodooctadecane

1-OCTADECYNE, 98% ITEM 3461

Not on the TSCA inventory. This material is a solid when <26 C so it may require heating to transfer material.

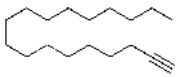
$CH_3(CH_2)_{15}C{\equiv}CH$ F.W. 250.47

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms
Amine Removal Process Performed - Pass Test
Appearance - Clear, colorless liquid when > 26 C

CAS # 629-89-0 DOT NR

12571	10 G
12572	50 G
12573	250 G
12574	1 KG

Specific Gravity 0.803



3,5-OCTADIYN-1,8-DIOL, 96% — ITEM 3249

Requires refrigeration. Not on the TSCA inventory.

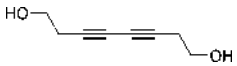
$HOCH_2CH_2C{\equiv}CC{\equiv}CCH_2CH_2OH$ F.W. 138.17

Assay (GC-FID), 95.0% min
Identification by GC/MS - Conforms
Appearance - Slightly pink to red solid

CAS # 15808-23-8 DOT NR

82431	5 G
82432	25 G
82433	100 G
82434	500 G
82435	5 KG

Specific Gravity 0.649



1,7-OCTADIYNE, 98% — ITEM 3248

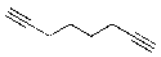
$HC{\equiv}C(CH_2)_4C{\equiv}CH$ F.W. 106.17

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms
Color - Colorless
Clarity / Form - Clear, liquid

CAS # 871-84-1 DOT 3/II NFPA # 1-3-1

82423	5 G
82421	25 G
82422	100 G
82424	1 KG

Specific Gravity 0.817



1-OCTANOL, REAGENT (ACS) — ITEM 2404

n-Octyl Alcohol; Suitable for use in determining TSCA partition coefficients

$CH_3(CH_2)_7OH$ F.W. 130.23

Assay (GC-corrected for H2O), 98.5% min
Appearance - Clear
Color (APHA) 10
Residue after evaporation 0.004%
Titrable acid 0.0002 meq/g

CAS # 111-87-5 DOT 9/III NFPA # 1-2-0

88241	500 ML
88242	4 L

Specific Gravity 0.827

1-OCTENE, 98% — ITEM 3251

$CH_3(CH_2)_5CH{=}CH_2$ F.W. 112.22

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 111-66-0 DOT 3/II NFPA # 1-3-0

82451	250 G
82452	1 KG

Specific Gravity 0.715

cis-2-OCTENE, 96% — ITEM 3404

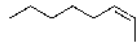
$CH_3(CH_2)_4CH{=}CHCH_3$ F.W. 112.22

Assay (GC-FID), 95% min
Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 7642-04-8 DOT 3/II

84261	5 G
84262	25 G

Specific Gravity 0.724



trans-2-OCTENE, 97% — ITEM 3252

$CH_3(CH_2)_4CH{=}CHCH_3$ F.W. 112.22

Assay (GC-FID), 96.5% min
Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 13389-42-9 DOT 3/II

82461	10 G
82462	50 G
82463	500 G

Specific Gravity 0.718

cis-3-OCTENE, 97% — ITEM 3434

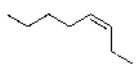
Not on the TSCA inventory.

$CH_3(CH_2)_3CH{=}CHCH_2CH_3$ F.W. 112.22

Assay (GC-FID), 96.5% min

CAS # 14850-22-7 DOT 3/II

54031	5 G
54032	25 G
54033	100 G



trans-3-OCTENE, 97% — ITEM 3253

Not on the TSCA inventory.

$CH_3(CH_2)_3CH=CHCH_2CH_3$ F.W. 112.22

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms

CAS # 14919-01-8 DOT 3/II

82471	10 G
82472	50 G

Specific Gravity 0.716

cis-4-OCTENE, 97% — ITEM 3254

Not on the TSCA inventory.

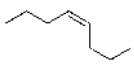
$CH_3CH_2CH_2CH=CHCH_2CH_2CH_3$ F.W. 112.22

Assay(GC-FID) 96.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 7642-15-1 DOT 3/II

82481	10 G
82482	50 G
82483	500 G

Specific Gravity 0.721



trans-4-OCTENE, 98% — ITEM 3255

Not on the TSCA inventory.

$CH_3CH_2CH_2CH=CHCH_2CH_2CH_3$ F.W. 112.22

Assay (GC-FID) 97.5% min. Identification by GC/MS - Conforms
Color - Colorless Clarity / Form - Clear, liquid

CAS # 14850-23-8 DOT 3/II

82491	10 G
82492	50 G
82493	250 G
82494	1 KG
82495	13 KG

Specific Gravity 0.715

1-OCTEN-4-OL, 98% — ITEM 3456

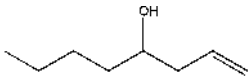
Not on the TSCA inventory.

$CH_3(CH_2)_3CH(OH)CH_2CH=CH_2$ F.W. 128.21

Assay (GC-FID), 97.5% min

CAS # 40575-42-6 DOT 3/III

Please Inquire For Sizes



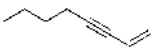
1-OCTEN-3-YNE — ITEM 3935

Not on the TSCA inventory.

$H_2C=CHC\equiv C(CH_2)_3CH_3$ F.W. 108.19

CAS # 17679-92-4

Please Inquire For Sizes



1-OCTEN-4-YNE — ITEM 3936

Not on the TSCA inventory.

$H_2C=CHCH_2C\equiv C(CH_2)_2CH_3$ F.W. 108.19

CAS # 24612-83-7

Please Inquire For Sizes

N-OCTYL ALCOHOL

See 1-Octanol

OCTYL CHLORIDE

See 1-Chlorooctane, 99%

OCTYL IODIDE

See 1-Iodooctane

OCTYLMAGNESIUM CHLORIDE 1.4M, IN TETRAHYDROFURAN — ITEM 5197

$CH_3(CH_2)_7MgCl$ F.W. 172.99

Active Concentration, 1.40 M ± 0.20 M Density, g/mL

CAS # 38841-98-4 DOT 4.3/3/I NFPA # 3-3-3

Please Inquire For Sizes

Specific Gravity 0.900

2-OCTYNAL, 97% — ITEM 5657

Not on the TSCA inventory.

$C_8H_{12}O$ F.W. 124.18

Assay (GC-FID), 96.5% min.
Identification (GC/MS), Confirm
Color (APHA), 300 max.
Clarity / Form, Clear Liquid

CAS # 1846-68-0 DOT 9/III NFPA # 2-2-0

21191	5 G
21192	25 G
21193	100 G
21194	1 KG
21195	3 KG
21196	15 KG
21197	45 KG

Specific Gravity 0.871

1-OCTYNE, 99% — ITEM 3425

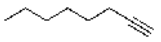
$CH_3(CH_2)_5C{\equiv}CH$ F.W. 110.20

Assay (GC-FID), 98.5% min
1-Heptyne, 0.2% max
Clarity / Form - Clear, liquid
Identification by GC/MS - Conforms
Color - Colorless

CAS # 629-05-0 DOT 3/II NFPA # 1-3-0

54051	25 G
54052	100 G
54053	500 G

Specific Gravity 0.746



1-OCTYNE, 97% — ITEM 3256

$CH_3(CH_2)_5C{\equiv}CH$ F.W. 110.20

Assay (GC-FID) - 96.5% Min.
Color - Colorless
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 629-05-0 DOT 3/II NFPA # 1-3-0

82501	25 G
82502	100 G
82503	500 G
82504	1 KG
82505	14 KG

Specific Gravity 0.746

2-OCTYNE, 99% — ITEM 3422

Not on the TSCA inventory.

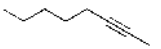
$CH_3(CH_2)_4C{\equiv}CCH_3$ F.W. 110.20

Assay (GC-FID), 98.5% min
Stabilizer (BHT), Confirm presence
Clarity / Form - Clear, liquid
Identification by GC/MS - Conforms
Color - Colorless

CAS # 2809-67-8 DOT 3/III

54061	25 G
54062	100 G

Specific Gravity 0.756



2-OCTYNE, 97% — ITEM 3257

Not on the TSCA inventory.

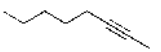
$CH_3(CH_2)_4C{\equiv}CCH_3$ F.W. 110.20

Assay (GC-FID) - 96.5% min.
Stabilizer (BHT), Confirm presence
Clarity / Form - Clear, liquid
Identification by GC/MS - Conforms
Color - Colorless

CAS # 2809-67-8 DOT 3/III

82511	25 G
82512	100 G
82513	1 KG

Specific Gravity 0.756



3-OCTYNE, 98% — ITEM 3388

Not on the TSCA inventory.

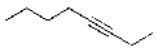
$CH_3(CH_2)_3C{\equiv}CCH_2CH_3$ F.W. 110.20

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 15232-76-5 DOT 3/III

83971	10 G
83972	50 G

Specific Gravity 0.753



4-OCTYNE, 99% — ITEM 3258

$CH_3CH_2CH_2C{\equiv}CCH_2CH_2CH_3$ F.W. 110.20

Assay (GC-FID), 98.5% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 1942-45-6 DOT 3/III

82521	10 G
82522	50 G
82523	500 G
82524	2.5 KG
82525	12 KG

Specific Gravity 0.751

1-OCTYN-3-OL, 97% — ITEM 3937

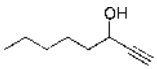
$HC{\equiv}CCH(OH)(CH_2)_4CH_3$ F.W. 126.20

Assay (GC-FID), 96.5% min
H2O (KF), 0.5% max
Clarity / Form - Clear, liquid
Identification by GC/MS - Conforms
Color - Colorless to yellow

CAS # 818-72-4 DOT NR

17241	10 G
17242	50 G
17243	250 G

Specific Gravity 0.864



2-OCTYN-1-OL, 98% — ITEM 3259

Not on the TSCA inventory.

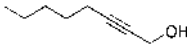
$CH_3(CH_2)_4C{\equiv}CCH_2OH$ F.W. 126.20

Assay (GC-FID), 97.5% min
H2O (KF), 0.5% max
Clarity / Form - Clear, liquid
Identification by GC/MS - Conforms
Color - Colorless to yellow

CAS # 20739-58-6 DOT NR

82531	10 G
82532	50 G
82534	250 G
82533	1 KG

Specific Gravity 0.880



3-OCTYN-1-OL, 98% — ITEM 3260

$CH_3(CH_2)_3C{\equiv}CCH_2CH_2OH$ F.W. 126.20

Assay (GC-FID), 97.5% min
H2O (KF), 0.5% max
Appearance, Clear liquid
Identification by GC/MS - Conforms
Color, 150 APHA max.

CAS # 14916-80-4 DOT NR

82541	10 G
82542	50 G
82543	250 G
82544	1 KG

Specific Gravity 0.877

4-OCTYN-2-OL — ITEM 3938

Not on the TSCA inventory.

$CH_3CH(OH)CH_2C{\equiv}C(CH_2)_2CH_3$ F.W. 126.20

CAS # 57355-72-3

Please Inquire For Sizes

7-OCTYN-1-OL, 97% — ITEM 5517

$HC{\equiv}C(CH_2)_6OH$ F.W. 126.20

Assay (GC-FID) 96.5% min.
Water (KF) 0.5% max.
Color < 150 APHA

CAS # 871-91-0 DOT NR

21011	10 G
21012	50 G
21013	250 G

OESPER'S REAGENT

See Ferrous Ethylenediammonium Sulfate

OLEIC ACID, 90%, TECHNICAL — ITEM 5442

$CH_3(CH_2)_7CH=CH(CH_2)_7COOH$ F.W. 282.46

Assay 90% min.

CAS # 112-80-1 DOT NR

20411	500 ML
20412	4 L
20413	20 L

Specific Gravity 1.000

ORGANIC HALOGEN REAGENT, (Sodium Biphenyl Solution) — ITEM 5005

Approximately 1.0 M solution in 2-ethoxyethyl ether. Limited shelf life. Brochure available.

$(C_6H_5)_2Na$ F.W. 177.20

Concentration approximately 1 M. Halides (as Cl) 8 ppm max.

CAS # 5137-46-2 DOT 8/3/II

54101	20 X 15 ML	
54102	20 X 15 ML	Min 4
54103	20 X 15 ML	Min 8

Specific Gravity 0.900

ORTHOPHOSPHORIC ACID

See Phosphoric Acid, 85%

OSMIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1776

Concentration 1,000 ± 10 ug/ml Matrix: 20% Hydrochloric acid
NIST Traceable

DOT 8/II

22760	100 ML
22762	500 ML

Specific Gravity 1.040

OSMIUM (III) CHLORIDE, HYDRATED — ITEM 3783

Approximately trihydrate

$OsCl_3 \bullet xH_2O$ F.W. 296.56

Osmium content 53-56%

CAS # 14996-60-2 DOT 6.1/II

12641	250 MG
12642	1 G

OSMIUM TETROXIDE, REAGENT (ACS), 99.8% — ITEM 2424

Osmic Acid. Packaged in ampules.

OsO_4 F.W. 254.20

Assay (metals basis) 99.8% min. Assay (iodometric titration) 98.0% min.
Clarity of solution Pass test Identification Pass test

CAS # 20816-12-0 DOT 6.1/I NFPA # 3-0-3

83781	250 MG
83782	1 G

OSMIUM TETROXIDE, SOLUTION, 0.01 M in 0.1 M SULFURIC ACID — ITEM 64

OsO_4 F.W. 254.20

Suitability as redox catalyst Pass Test

CAS # 20816-12-0 DOT 8/6.1/III

54201	25 ML
54202	125 ML

Specific Gravity 1.008

OXALATE, 1,000 ppm, ION CHROMATOGRAPHY STANDARD SOLUTION — ITEM 3767

Concentration (as oxalate) 1,000 ± 10 ug/mL Matrix: sodium oxalate, water

DOT NR

23941	100 ML
23942	500 ML

Specific Gravity 1.000

OXALIC ACID, ANHYDROUS, 98% — ITEM 2450

HO_2CCO_2H F.W. 90.04

Assay 98% min.

CAS # 144-62-7 DOT 8/II NFPA # 2-1-1

54631	100 G
54632	500 G

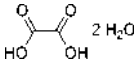
OXALIC ACID, DIHYDRATE, HIGH PURITY — ITEM 1277

$(COOH)_2 \bullet 2H_2O$ F.W. 126.07

Assay 99.5-102.5%
Chloride 0.0002%
Nitrogen compounds (N) 0.0001%
Copper 0.00005%
Calcium 0.0001%
Sodium 0.0001%
Residue after ignition 0.001%
Insoluble 0.0005%
Sulfate 0.0005%
Lead 0.00005%
Nickel 0.00005%
Magnesium 0.00005%
Potassium 0.0001%
Substances not darkened by hot H2SO4 -pass test
Iron 0.5 ppm

CAS # 6153-56-6 DOT 8/III NFPA # 2-1-1

54611	100 G
54614	500 G
54615	2.5 KG



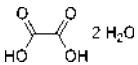
OXALIC ACID, DIHYDRATE, REAGENT (ACS) — ITEM 652

$(COOH)_2 \bullet 2H_2O$ F.W. 126.07

Assay 99.5-102.5%
Residue after ignition 0.01%
Sulfate 0.005%
Nitrogen compounds (as N) 0.001%
Iron 0.0002%
Insoluble 0.005%
Chloride 0.002%
Calcium 0.001%
Heavy metals (as Pb) 0.0005%
Substances darkened by hot H2SO4 - Pass Test

CAS # 6153-56-6 DOT 8/III NFPA # 2-1-1

54605	100 G
54601	500 G
54602	2.5 KG
54603	10 KG
54604	50 KG



OXALIC ACID SOLUTION, 10% W/V — ITEM 2091

$(COOH)_2 \bullet 2H_2O$ F.W. 126.07

Concentration 10.0% ± 0.5%

CAS # 6153-56-6 DOT 8/III

24901	500 ML

Specific Gravity 1.032

OXINE

See 8-Hydroxyquinoline, 99%

OXONE®, MONOPERSULFATE COMPOUND — ITEM 5443

$2KHSO_5 \bullet KHSO_4 \bullet K_2SO_4$ F.W. 614.77

Available oxygen 4.0% min.

CAS # 70693-62-8 DOT 5.1/III

15431	100 G
15432	500 G
15433	2 KG
15434	10 KG

PALLADIUM, 99.999% — ITEM 5055

Pd F.W. 106.40

Assay (metals basis) 99.999% min.

CAS # 7440-05-3 DOT 4.1/II

87511	500 MG
87513	5 G

PALLADIUM, 5%, ON CARBON — ITEM A5566

-325 mesh

CAS # 7440-05-3 DOT 4.1/II

54652	10 G
54653	50 G

PALLADIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1778

Concentration 10,000 ± 100 ug/ml Matrix: 20% Hydrochloric acid
NIST Traceable

DOT 8/II NFPA # 2-0-2

22780	100 ML
22782	500 ML

Specific Gravity 1.040

PALLADIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1777

Concentration 1,000 ± 10 ug/ml Matrix: 20% Hydrochloric acid
NIST Traceable

DOT 8/II NFPA # 2-0-2

22770	100 ML
22772	500 ML

Specific Gravity 1.040

PALLADIUM ACETATE, 98% — ITEM 2425

$(CH_3CO_2)_2Pd$ F.W. 224.49

Assay 98%

CAS # 3375-31-3 DOT NR

83791	1 G
83792	5 G

P

PALLADIUM BIS(TRIPHENYLPHOSPHINE) CHLORIDE

See Triphenylphosphine Palladium Chloride

PALLADIUM CATALYST

See Royer Palladium Catalyst Beads

PALLADIUM CHLORIDE, 99.999% ITEM 5094

$PdCl_2$ F.W. 177.31

Assay (metals basis) 99.999% min.

CAS # 7647-10-1 DOT 6.1/III NFPA # 2-0-0

87901	1 G
87902	5 G

PALLADIUM CHLORIDE, REAGENT (ACS) ITEM 978

$PdCl_2$ F.W. 177.31

Palladium content (dried basis) 58.5-60.5% Assay (metals basis) 99.9% min

CAS # 7647-10-1 DOT 6.1/III NFPA # 2-0-0

54705	1 G
54701	5 G
54702	25 G

PALLADIUM NITRATE, DIHYDRATE ITEM 5237

$Pd(NO_3)_2 \bullet 2H_2O$ F.W. 266.46

Assay (as Pd) 38-42%

CAS # 10102-05-3 NFPA # 2-0-0

Please Inquire For Sizes

PALLADIUM NITRATE, SOLUTION ITEM 5238

Matrix modifier for graphite furnace AA. Nominally 1% Pd solution in about 5% nitric acid.

$Pd(NO_3)_2 \bullet 2H_2O$ F.W. 266.46

Concentration (as Pd) 1.0 ± 0.2% Excess acid ca. 5%

CAS # 10102-05-3 DOT 8/III

14281	50 ML

PALLADIUM OXIDE, 99.998% ITEM 5056

Palladium II Oxide

PdO F.W. 122.40

Assay (metals basis) 99.998%

CAS # 1314-08-5 DOT NR

87521	500 MG
87523	5 G

PALMITIC ACID, 95% ITEM 5444

$CH_3(CH_2)_{14}COOH$ F.W. 256.42

Assay (GC-FID), 94.0% min Appearance - White to off-white solid

CAS # 57-10-3 DOT NR

18211	500 G
18212	2.5 KG
18213	10 KG

PAN

See 1-(2-Pyridylazo)-2-Naphthol

PARAFORMALDEHYDE, 95%, PRILLS ITEM 2605

$H(CHO)_nH$

Assay 95% min.

CAS # 30525-89-4 DOT 4.1/III NFPA # 3-1-0

54761	100 G
54762	500 G

PARA-PERIODIC ACID

See Periodic Acid

p-DIHYDROXYBENZENE

See Hydroquinone, 99%

5-(p-DIMETHYLAMINOBENZYLIDINE)-RHODANINE

See p-Dimethylaminobenzalrhodanine

PDT

See 3-(2-Pyridyl)-5,6-Diphenyl-1,2,4-Triazine(PDT)

PDTS

See 3-(2-Pyridyl)-5,6-Diphenyl-1,2,4-Triazine Disulfonated, Monosodium Salt 3-(2-Pyridyl)-5,6-Diphenyl-1,2,4-Triazine Sulfonated, Disodium Salt

PEG 300

See Poly(Ethylene Glycol) 300

10,12-PENTACOSADIYNOIC ACID, 98% ITEM 3261

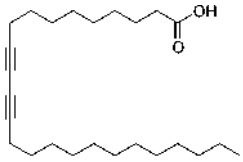
Not on the TSCA inventory.

$CH_3(CH_2)_{11}C{\equiv}CC{\equiv}C(CH_2)_8COOH$ F.W. 374.61

Assay (GC-FID by Esterification), 97.5% min
Assay (HPLC - Area % at 226 nm), 97.5% min
Identification by GC/MS - Conforms
Appearance - White to light blue solid

CAS # 66990-32-7 DOT NR

82551	5 G
82552	25 G
82553	100 G
82555	1 KG



1-PENTADECENE, 98% ITEM 3262

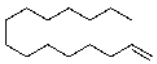
$CH_3(CH_2)_{12}CH{=}CH_2$ F.W. 210.40

Assay (GC-FID), 97.5% min
Appearance: Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 13360-61-7 DOT 9/III

82561	10 G
82562	50 G

Specific Gravity 0.775



1-PENTADECYNE, 98% ITEM 3263

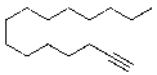
$CH_3(CH_2)_{12}C{\equiv}CH$ F.W. 208.39

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless to yellow liquid
Identification by GC/MS - Conforms

CAS # 765-13-9 DOT NR

82571	5 G
82572	25 G
82573	500 G
82574	3 KG
82575	15 KG

Specific Gravity 0.793



1,4-PENTADIYNE (ALTERNATIVE TO)

See 1-Trimethylsilyl-1,4-Pentadiyne

PENTAFLUOROPROPIONIC ACID, 98% ITEM 3415

$CF_3CF_2CO_2H$ F.W. 164.03

Assay (Acid-base titration), 97.5% - 102.5%
Appearance - Clear, colorless to amber liquid

CAS # 422-64-0 DOT 8/II

89681	10 G
89682	50 G
89683	250 G

Specific Gravity 1.561

n-PENTANE, VERITAS® ULTIMATE ITEM 5574

C_5H_{12} F.W. 72.15

Assay (as n-Pentane) 98.0%
ECD responsive substances 10 pg/ml
Residue after evaporation 0.0001%
UV at 200 nm 0.6 AU max
UV at 220 nm 0.06 AU max
Fluorescence (as quinine base) 500 ppt
Assay (total isomers) 99.9%
FID responsive substances 5 ug/L
UV cut-off 190 nm
UV at 210 nm 0.3 AU max
UV at 250 nm 0.01 AU max
Water 0.01%

CAS # 109-66-0 DOT 3/II NFPA # 1-4-0

18121	4 L
18122	4 X 4 L

Specific Gravity 0.626

n-PENTANE, DISTILLED IN GLASS ITEM 1241

Suitable for pesticide analysis, gas chromatography, liquid chromatography and spectrophotometry.

C_5H_{12} F.W. 72.15

Assay (GLC) 98.5% minimum
Chlorinated hydrocarbon residue 10 pg/ml
Water 0.01%
Boiling range 35-37C
Residue after evaporation 0.0003%

CAS # 109-66-0 DOT 3/II NFPA # 1-4-0

54793	1 L
54794	6 X 1 L
54791	4 L
54792	4 X 4 L

Specific Gravity 0.626

n-PENTANE, HPLC ITEM 2491

C_5H_{12} F.W. 72.15

Assay 99% min.
UV Absorbance at 200 nm 0.30
UV Absorbance at 250 nm 0.01
Water 0.01%
UV Absorbance at 190 nm 1.00
UV Absorbance at 210 nm 0.10
Residue after evaporation 0.0005%

CAS # 109-66-0 DOT 3/II NFPA # 1-4-0

54771	1 L
54772	6 X 1 L
54773	4 L
54774	4 X 4 L

Specific Gravity 0.626

n-PENTANE, REAGENT — ITEM 1075

C_5H_{12} F.W. 72.15

Assay (GC-FID), 97.5% min Boiling range 35-37 C

CAS # 109-66-0 DOT 3/II NFPA # 1-4-0

54785	1 L
54786	6 X 1 L
54781	4 L
54782	4 X 4 L
54784	19 L

Specific Gravity 0.626

1,5-PENTANEDIOL, 97% — ITEM 3264

$HO(CH_2)_5OH$ F.W. 104.15

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms

CAS # 111-29-5 DOT NR NFPA # 1-1-0

82581	250 G
82582	1 KG
82584	50 KG
82583	120 KG

Specific Gravity 0.994

2,4-PENTANEDIONE, 99% — ITEM 2751

Acetylacetone

$CH_3COCH_2COCH_3$ F.W. 100.12

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms

CAS # 123-54-6 DOT 3/6.1/III NFPA # 2-3-1

54801	100 ML
54802	1 L
54803	19 L

Specific Gravity 0.975

PENTANENITRILE, 98% — ITEM 3371

$CH_3(CH_2)_3CN$ F.W. 83.15

Assay (GC-FID), 97.5% min Appearance - Clear, colorless to yellow liquid

CAS # 110-59-8 DOT 3/6.1/III

83651	100 G

Specific Gravity 0.795

1-PENTANOL

See n-Amyl Alcohol

1-PENTENE, 98% — ITEM 3396

$CH_3CH_2CH_2CH=CH_2$ F.W. 70.14

Assay (GC-FID), 97.5% min Appearance - Clear, colorless liquid

CAS # 109-67-1 DOT 3/I

89540	100 G
89542	500 G
89543	1.5 KG
89544	3 KG

Specific Gravity 0.641

cis-2-PENTENE, 96% — ITEM 3265

Stabilized with BHT

$CH_3CH_2CH=CHCH_3$ F.W. 70.14

Assay (GC-FID), 95.0% min Identification by GC/MS - Conforms
Stabilizer (BHT), Confirm presence Color - Colorless
Clarity / Form - Clear, liquid

CAS # 627-20-3 DOT 3/II

82591	5 G
82592	25 G
82594	250 G
82593	1 KG
82595	2.5 KG
82596	12 KG

Specific Gravity 0.657

trans-2-PENTENE, 99% — ITEM 3266

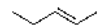
$CH_3CH_2CH=CHCH_3$ F.W. 70.14

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 646-04-8 DOT 3/II NFPA # 0-4-0

82601	5 G
82602	25 G
82603	250 G
82604	1 KG
82608	2.5 KG
82605	12 KG
82606	35 KG
	130 KG

Specific Gravity 0.649



cis-3-PENTEN-1-OL, 98% — ITEM 3268

Not on TSCA inventory.

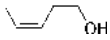
$CH_3CH=CH(CH_2)_2OH$ F.W. 86.13

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms

CAS # 764-38-5 DOT 3/III

82623	5 G
82624	25 G

Specific Gravity 0.849



4-PENTEN-1-OL, 98% — ITEM 3269

Not on the TSCA inventory.

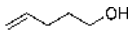
$H_2C=CH(CH_2)_3OH$ F.W. 86.13

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
H2O (KF), 0.5% max Color (APHA), 150 max.
Clarity / Form - Clear, liquid

CAS # 821-09-0 DOT 3/III

82631	10 G
82632	50 G
82633	250 G
82634	1 KG
82635	15 KG
82636	45 KG
82637	165 KG

Specific Gravity 0.834



1-PENTEN-4-YNE, 95% — ITEM 3942

Not on the TSCA inventory, for R&D use only.

$H_2C=CHCH_2C\equiv CH$ F.W. 66.10

Assay (GC-FID), 94.0% min Identification by GC/MS - Conforms
Color (APHA), 50 max Clarity / Form - Clear, liquid

CAS # 871-28-3 DOT 3/II

10010	10 G
10016	50 G
10017	250 G
10018	800 G
10019	4.6 KG

Specific Gravity 0.738

trans-2-PENTEN-4-YN-1-OL, 95% — ITEM 3450

Not on the TSCA inventory.

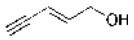
$CH_2OHCH=CHC\equiv CH$ F.W. 82.10

Assay (GC-FID), 94.0% min Identification by GC/MS - Conforms
H2O (KF), 0.5% max

CAS # 5557-88-0 DOT 9/III

54811	10 G
54812	50 G

Specific Gravity 0.880



PENTYL ACETATE

See Amyl Acetate

PENTYL ALCOHOL

See n-Amyl Alcohol

PENTYL BROMIDE

See 1-Bromopentane, 99%

PENTYL IODIDE

See 1-Iodopentane, 98%

1-PENTYNE, 99% — ITEM 3384

$CH_3CH_2CH_2C\equiv CH$ F.W. 68.12

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 627-19-0 DOT 3/II NFPA # 1-3-0

83832	25 G
83833	100 G
83834	500 G
83835	4 KG
83836	12 KG
83837	40 KG
83838	145 KG

Specific Gravity 0.691

P

1-PENTYNE, 97% — ITEM 3270

$CH_3CH_2CH_2C{\equiv}CH$ F.W. 68.12

Assay (GC-FID), 96.5% min

Identification by GC/MS - Conforms

CAS # 627-19-0 DOT 3/II NFPA # 1-3-0

82641	25 G
82642	100 G
82643	500 G
82644	4 KG
82645	12 KG

Specific Gravity 0.691

P

2-PENTYNE, 98% — ITEM 3271

Not on the TSCA inventory.

$CH_3CH_2C{\equiv}CCH_3$ F.W. 68.12

Assay (GC-FID), 97.5% min
Stabilizer (BHT), Confirm presence
Clarity / Form - Clear, liquid

Identification by GC/MS - Conforms
Color - Colorless

CAS # 627-21-4 DOT 3/II NFPA # 1-3-0

82653	5 G
82651	25 G
82652	100 G
82654	1 KG
82655	14 KG

Specific Gravity 0.711

2-PENTYNOIC ACID, 98% — ITEM 3272

Not on the TSCA inventory.

$CH_3CH_2C{\equiv}CCOOH$ F.W. 98.10

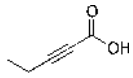
Assay (Acid-Base Titration), 97.5% min

Assay (GC-FID by Esterification), 97.5% min

Identification by GC/MS - Conforms

CAS # 5963-77-9 DOT NR

82661	5 G
82662	25 G



4-PENTYNOIC ACID, 98% — ITEM 3273

Not on the TSCA inventory.

$HC{\equiv}C(CH_2)_2COOH$ F.W. 98.10

Assay (GC-FID by Esterification), 97.5% min

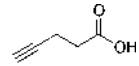
Assay (Acid-base titration), 97.5% - 102.5%

Identification by GC/MS - Conforms
Appearance - White to yellow crystal/solid

H2O (KF), 0.5% max

CAS # 6089-09-4 DOT 8/III

82671	5 G
82672	25 G
82673	100 G
82674	500 G



1-PENTYN-3-OL, 98% — ITEM 3403

Not on the TSCA inventory.

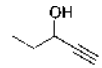
$HC{\equiv}CCH(OH)CH_2CH_3$ F.W. 84.12

Assay (GC-FID), 97.5% min

CAS # 4187-86-4 DOT 3/6.1/II

Please Inquire For Sizes

Specific Gravity 0.885



2-PENTYN-1-OL, 98% — ITEM 3274

$CH_3CH_2C{\equiv}CCH_2OH$ F.W. 84.12

Assay (GC-FID), 97.5% min
H2O (KF), 0.5% max
Appearance, Clear Liquid

Identification by GC/MS - Conforms
Color (APHA), 150 max

CAS # 6261-22-9 DOT 6.1/3/II

82681	10 G
82682	50 G
82684	250 G
82685	1 KG
82686	3.5 KG
82687	18 KG
82688	45 KG
	180 KG

Specific Gravity 0.908

3-PENTYN-1-OL, 98% — ITEM 3275

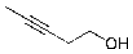
$CH_3C{\equiv}CCH_2CH_2OH$ F.W. 84.12

Assay (GC-FID), 97.5% min
H2O (KF), 0.5% max
Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 10229-10-4 DOT 3/III

82691	10 G
82692	50 G
82694	250 G
82695	1 KG

Specific Gravity 0.920



4-PENTYN-1-OL, 98% — ITEM 3276

Not on the TSCA inventory.

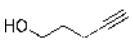
$HC{\equiv}CCH_2CH_2CH_2OH$ F.W. 84.12

Assay (GC-FID) - 97.5% min.
Water (KF) - 0.5% max.
Clarity / Form - Clear Liquid
Identification by GC/MS - Conforms
Color - 50 APHA max.

CAS # 5390-04-5 DOT NR

82701	10 G
82702	50 G
82703	250 G
82704	1 KG
82705	3.5 KG
82706	17 KG
82707	50 KG
	180 KG

Specific Gravity 0.913



(±)-4-PENTYN-2-OL, 98% — ITEM 3277

Not on the TSCA inventory.

$CH_3CH(OH)CH_2C{\equiv}CH$ F.W. 84.12

Assay (GC-FID) 97.5% min.
H2O (KF), 0.5% max
Clarity / Form - Clear, liquid
Identification by GC/MS - Conforms
Color - 50 APHA max

CAS # 2117-11-5 DOT 3/III

82711	10 G
82712	50 G
82713	250 G
82714	1 KG
82715	17.5 KG
82716	50 KG

Specific Gravity 0.892

4-PENTYN-1-YL ACETATE, 96% — ITEM 3278

Not on the TSCA inventory.

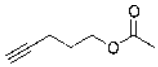
$HC{\equiv}C(CH_2)_3O_2CCH_3$ F.W. 126.16

Assay (GC-FID), 95.0% min
Appearance - Clear, colorless to yellow liquid

CAS # 14604-46-7 DOT NR

82721	10 G
82722	50 G

Specific Gravity 0.956



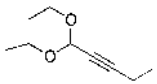
2-PENTYNYL ALDEHYDE DIETHYL ACETAL — ITEM 3944

Not on the TSCA inventory.

$CH_3CH_2C{\equiv}CCH(OC_2H_5)_2$ F.W. 156.23

CAS # 18229-77-1

Please Inquire For Sizes



4-PENTYNYLAMINE, 97% — ITEM 9721

Not on the TSCA inventory.

$NH_2(CH_2)_3C{\equiv}CH$ F.W. 83.13

Assay (GC-FID), 96.5% min
Identification by GC/MS - Conforms
H2O (KF), 5.0% max
Appearance - Clear, colorless to yellow liquid

CAS # 15252-44-5 DOT 3/6.1/8/II

17621	5 G

N-(4-PENTYNYL)PHTHALIMIDE, 97% — ITEM 5510

$C_{13}H_{11}NO_2$ F.W. 213.23

Assay (GC-FID), 96.5% min
Appearance - White to tan solid
Identification by GC/MS - Conforms

CAS # 6097-07-0 DOT NR

17481	5 G
17482	25 G

P

PERCHLORATE, 1,000 ppm, ION CHROMATOGRAPHY STANDARD SOLUTION — ITEM 3768

Concentration (as ClO4) 1,000 ± 10 ug/mL Matrix: $NaClO_4$, water

DOT NR

23951	100 ML
23952	500 ML

Specific Gravity 1.000

PERCHLORATE, 1,000 ppm ION STANDARD SOLUTION — ITEM 757

IC, colorimetric or volumetric standard

Concentration (as ClO4) 1,000 ug/ml Matrix: Sodium perchlorate in water
NIST Traceable

DOT NR

70270	100 ML
70272	500 ML

Specific Gravity 1.000

PERCHLORATE IN THE ENVIRONMENT, CHAPTER TWO — ITEM 494

Reprint

DOT NR

99552	EACH

PERCHLORATES IN ORGANIC MEDIA, G.I.T. LAB. JOURNAL, 2000, 4, 222., John R. Long — ITEM 493

Reprint

DOT NR

99553	EACH

PERCHLORIC ACID, CONSTANT BOILING, 73.60% HClO4 — ITEM 65

Std. of ref. in alkalimetry. Shipped in special wet pack. One ampule is sufficient to prepare 1 liter of approx. 0.1N solution. Exact N may be calc. from wt. of acid. Sealed in glass ampule 15-20 g.

$HClO_4 \bullet 2H_2O$ F.W. 136.50

Assay 73.58-73.62%

CAS # 7601-90-3 DOT 5.1/8/I NFPA # 3-0-1

55901	EACH

Specific Gravity 1.670

PERCHLORIC ACID, 70%, VERITAS® DOUBLE DISTILLED — ITEM 230

Ultra trace metal grade. Low PPT level impurities.

$HClO_4$ F.W. 100.46

Assay 69.0-72.0%
Silicate and phosphate 0.00001%
Nitrogen compounds 0.0001%
Iron 0.000001%
Residue after ignition 0.0001%
Chloride 0.00001%
Sulfate 0.0001%
Heavy Metals 0.000001%

CAS # 7601-90-3 DOT 5.1/8/I NFPA # 3-0-1

T **55801**	250 ML
T **55802**	500 ML
T **55805**	2 L

T = FEP Bottle

Specific Gravity 1.660

PERCHLORIC ACID, 70%, ENVIRONMENTAL GRADE — ITEM 2593

Similar to redistilled grade with guaranteed trace metal specifications. Packed in fluorinated bottles to minimize boron and silicon contamination.

$HClO_4$ F.W. 100.46

Assay 69.0-72.0%
Silicate and phosphate 0.0005%
Nitrogen compounds 0.001%
Heavy metals 0.00001%
Residue after ignition 0.001%
Chloride 0.001%
Sulfate 0.001%
Color (APHA) 10

Ag 10 ppb	Al 10 ppb	As 10 ppb
B	Ba 10 ppb	Be 10 ppb
Ca 10 ppb	Cd 10 ppb	Co 10 ppb
Cr 10 ppb	Cu 10 ppb	Fe 10 ppb
K 10 ppb	Li 10 ppb	Mg 10 ppb
Mn 10 ppb	Mo 10 ppb	Na 10 ppb
Ni 10 ppb	Pb 10 ppb	Sb 10 ppb
Se 10 ppb	Sr 10 ppb	Ti 10 ppb
Tl 10 ppb	V 10 ppb	Zn 10 ppb

CAS # 7601-90-3 DOT 5.1/8/I NFPA # 3-0-1

55781	500 ML
55782	6 X 500 ML
55783	2 L
55784	4 X 2 L
55785	6 X 2 L

Specific Gravity 1.660

PERCHLORIC ACID, 70%, VERITAS® REDISTILLED — ITEM 67

Trace metal grade. Low ppb metal impurities. Note: Results reported at time of bottling in glass. The levels of Al, B, Ca, K, Mg, Mn, Na, and Si will increase over time.

$HClO_4$ F.W. 100.46

Assay 69.0-72.0%
Silicate and phosphate 0.0005%
Nitrogen compounds 0.001%
Heavy Metals 0.00001%
Color(APHA) 10 max.
Residue after ignition 0.001%
Chloride 0.001%
Sulfate 0.001%
Iron 0.000001%

CAS # 7601-90-3 DOT 5.1/8/I NFPA # 3-0-1

55701	500 ML
55703	6 X 500 ML
55702	2.5 L
55704	4 X 2.5 L
55714	2.5 L PVC
55715	4X2.5L PVC

Specific Gravity 1.660

PERCHLORIC ACID, 70% SUPERIOR REAGENT (ACS) ITEM 2477

Metals analysis reported on certificate in ppm.

$HClO_4$ F.W. 100.46

Assay 69.0-72.0%
Silicate and phosphate 0.0005%
Nitrogen compounds (as N) 0.001%
Color (APHA) 10 max.
Sodium 5 ppm
Chlorine(Cl) 0.0005%
Residue after ignition 0.003%
Chloride(Cl) 0.0003%
Sulfate 0.001%
Boron 30 ppm (at time of bottling)
Potassium 1 ppm
Chlorate(ClO3) 0.001%

Ag 0.1 ppm	Al 0.1 ppm	Au 0.1 ppm
Ba 0.1 ppm	Be 0.1 ppm	Bi 0.05 ppm
Ca 0.5 ppm	Cd 0.05 ppm	Co 0.1 ppm
Cr 0.1 ppm	Cu 0.05 ppm	Fe 0.5 ppm
Ga 0.05 ppm	Ge 0.02 ppm	Hg 0.1 ppm
In 0.05 ppm	Mn 0.05 ppm	Mo 0.02 ppm
Ni 0.05 ppm	Pb 0.1 ppm	Pt 0.1 ppm
Sb 0.02 ppm	Si 0.1 ppm	Sn 0.05 ppm
Sr 0.1 ppm	Ti 0.05 ppm	Tl 0.02 ppm
V 0.02 ppm	Zn 0.1 ppm	Zr 0.05 ppm

CAS # 7601-90-3 DOT 5.1/8/I NFPA # 3-0-1

55571	500 ML	
55572	6 X 500 ML	
55573	2.5 L	
55574	4 X 2.5 L	
55577	2.5 L PVC	
55578	4X2.5L PVC	
55575	200 L	
55576	200 L	Min 32
55580	200 L	Min 56

Specific Gravity 1.660

PERCHLORIC ACID, 60% SUPERIOR REAGENT (ACS) ITEM 2967

Metals analysis reported on certificate in ppm.

$HClO_4$ F.W. 100.46

Assay 60.0-62.0%
Silicate and phosphate 0.0005%
Nitrogen compounds (as N) 0.001%
Color (APHA) 10 max.
Sodium 5 ppm
Chlorine 0.0005%
Residue after ignition 0.003%
Chloride 0.0003%
Sulfate 0.001%
Boron 30 ppm (at time of bottling)
Potassium 1 ppm
Chlorate 0.001%

Ag 0.1 ppm	Al 0.1 ppm	Au 0.1 ppm
Ba 0.1 ppm	Be 0.1 ppm	Bi 0.05 ppm
Ca 0.5 ppm	Cd 0.05 ppm	Co 0.1 ppm
Cr 0.1 ppm	Cu 0.05 ppm	Fe 0.5 ppm
Ga 0.05 ppm	Ge 0.02 ppm	Hg 0.1 ppm
In 0.05 ppm	Mn 0.05 ppm	Mo 0.02 ppm
Ni 0.05 ppm	Pb 0.1 ppm	Pt 0.1 ppm
Sb 0.02 ppm	Sn 0.05 ppm	Sr 0.1 ppm
Ti 0.05 ppm	Tl 0.02 ppm	V 0.02 ppm
Zn 0.1 ppm	Zr 0.05 ppm	

CAS # 7601-90-3 DOT 5.1/8/I NFPA # 3-0-1

55581	500 ML
55582	6 X 500 ML
55583	2.5 L
55584	4 X 2.5 L
55585	2.5 L PVC
55586	4X2.5L PVC

Specific Gravity 1.540

PERCHLORIC ACID, 70%, REAGENT (ACS) ITEM 66

$HClO_4$ F.W. 100.46

Assay 69.0-72.0%
Silicate + phosphate 0.0005%
Sulfate 0.001%
Heavy metals (as Pb) 0.0001%
Color (APHA) 10 max
Residue after ignition 0.003%
Chloride 0.001%
Nitrogen compounds (as N) 0.001%
Iron 0.0001%

CAS # 7601-90-3 DOT 5.1/8/I NFPA # 3-0-1

55501	500 ML	
55503	6 X 500 ML	
55502	2.5 L	
55504	4 X 2.5 L	
55527	2.5 L PVC	
55528	4X2.5L PVC	
55529	50 L	
55524	200 L	
55525	200 L	Min 32
55526	200 L	Min 56

Specific Gravity 1.660

PERCHLORIC ACID, 60%, REAGENT (ACS) ITEM 69

$HClO_4$ F.W. 100.46

Assay 60.0-62.0%
Silicate + Phosphate 0.0005%
Nitrogen compounds 0.001%
Heavy metals (Pb) 0.0001%
Color (APHA) 10 max
Residue after ignition 0.003%
Chloride 0.001%
Sulfate 0.001%
Iron 0.0001%

CAS # 7601-90-3 DOT 5.1/8/I NFPA # 3-0-1

55001	500 ML
55003	6 X 500 ML
55002	2.5 L
55004	4 X 2.5 L
55027	2.5 L PVC
55028	4X2.5L PVC
55019	50 L
55024	200 L POLY

Specific Gravity 1.540

PERCHLORIC ACID, 50%, REAGENT (ACS) ITEM 6601

$HClO_4$ F.W. 100.46

Assay 48.0-50.0%
Silicate + phosphate 0.0005%
Sulfate 0.001%
Heavy metals (as Pb) 0.0001%
Color (APHA) 10
Residue after ignition 0.003%
Chloride 0.001%
Nitrogen compounds 0.001%
Iron 0.0001%

CAS # 7601-90-3 DOT 8/5.1/II NFPA # 3-0-1

55601	500 ML
55602	2.5 L
55604	4 X 2.5 L
55624	200 L

Specific Gravity 1.400

P

PERCHLORIC ACID, 40% REAGENT — ITEM 2478

Meets all American Chemical Society specifications except for assay.

$HClO_4$ F.W. 100.46

Assay 39.0-41.0%
Silicate + phosphate 0.0005%
Sulfate 0.001%
Heavy metals (as Pb) 0.0001%
Color (APHA) 10 max
Residue after ignition 0.003%
Chloride 0.001%
Nitrogen compounds (as N) 0.001%
Iron 0.0001%

CAS # 7601-90-3 DOT 8/5.1/II NFPA # 3-0-1

55071	500 ML
55073	6 X 500 ML
55072	2.5 L
55074	4 X 2.5 L
55076	200 L

Specific Gravity 1.330

PERCHLORIC ACID, 68-72%, TECHNICAL — ITEM 68

$HClO_4$ F.W. 100.46

Assay 68.0-72.0%
Suspended particles Pass test
Color (APHA) 10 max
Clarity Pass test
Ammonia 0.05%

CAS # 7601-90-3 DOT 5.1/8/I NFPA # 3-0-1

55757	50 L	Min 9
55763	200 L	
55764	200 L	Min 32
55765	200 L	Min 56

Specific Gravity 1.660

PERCHLORIC ACID SOLUTION, 0.1 N, AQUEOUS — ITEM 1677

0.10 mol/L

$HClO_4$ F.W. 100.46

Exact normality 0.1000 ± 0.0002

CAS # 7601-90-3 DOT 8/III

56001	4 L
56002	4 X 4 L

Specific Gravity 1.055

PERCHLORIC ACID SOLUTION, 0.1 N IN ACETIC ACID — ITEM 71

Standard for non-aqueous titrations. Approximately 0.1N perchloric acid in acetic acid and acetic anhydride.

$HClO_4$ F.W. 100.46

Normality - approx. 0.1N($HClO_4$)
Water (by KF titration) 0.02-0.05%

CAS # 7601-90-3 DOT 8/3/II NFPA # 2-2-0

55953	500 ML
55954	6 X 500 ML
55951	2.5 L
55952	4 X 2.5 L

Specific Gravity 1.050

PERCHLORIC ACID, 10% W/W — ITEM 3752

Suitable for protein denaturization.

$HClO_4$ F.W. 100.46

Concentration 10 ± 0.5% (w/w)

CAS # 7601-90-3 DOT 8/5.1/II

55101	500 ML
55103	2.5 L

Specific Gravity 1.060

PERCHLORIC ACID AND PERCHLORATES, SECOND EDITION, A.A. Schilt and L.C. McBride, 2003 — ITEM 496

DOT NR

99550	EACH

PERIODIC ACID, 99.99+% — ITEM 5359

H_5IO_6 F.W. 227.96

Assay 99.0-101.0%
Insoluble matter 0.01%
Other Halogens (as Cl) 0.01%
Iron 0.003%
Assay (metals basis) 99.99+%
Residue after ignition 0.01%
Sulfate 0.01%

CAS # 10450-60-9 DOT 5.1/II NFPA # 3-0-1

15262	100 G
15263	500 G
15264	2.5 KG
15265	10 KG
15266	50 KG

PERIODIC ACID, REAGENT (ACS) — ITEM 74

H_5IO_6 F.W. 227.96

Assay 99.0-101.0%
Residue after ignition 0.01%
Sulfate 0.01%
Iron 0.003%
Insoluble 0.01%
Other halogens (as Cl) 0.01%
Heavy metals (as Pb) 0.005%

CAS # 10450-60-9 DOT 5.1/II NFPA # 3-0-1

57001	25 G
57002	100 G
57003	500 G
57004	2.5 KG
57005	10 KG
57006	50 KG

PERIODIC ACID, SOLUTION, 50% — ITEM 7402

H_5IO_6 F.W. 227.96

Concentration 50 ± 0.5% (w/w)
Other halogens (as Cl) 0.01%
Clarity of solution - clear

CAS # 10450-60-9 DOT 8/II NFPA # 3-0-2

57021	1 L
57022	4 L
57023	20 L
57024	200 L

Specific Gravity 1.650

PETROLEUM ETHER, VERITAS® ULTIMATE — ITEM 5575

ECD responsive substances 5 pg/ml
Titrable acid 0.0002 meq/g
Boiling Range 35-60 C
Residue after evaporation 0.0001%
Water 0.01%

CAS # 8032-32-4 DOT 3/II NFPA # 1-4-0

18131 4 L
18132 4 X 4 L

Specific Gravity 0.640

PETROLEUM ETHER, DISTILLED IN GLASS — ITEM 1242

Suitable for pesticide analysis

Boiling range 30-60 C
Residue after evaporation 0.0003%
Chlorinated hydrocarbon residue 10 pg/ml
Water 0.02%

CAS # 8032-32-4 DOT 3/I NFPA # 1-4-0

57111 4 L
57112 4 X 4 L

Specific Gravity 0.640

PETROLEUM ETHER, REAGENT (ACS) — ITEM 979

Ligroin. Mixed Hydrocarbons.

Boiling range 35-60 C
Acidity - Pass Test
Residue after evaporation 0.001%
Color (APHA) 10 max

CAS # 8032-32-4 DOT 3/I NFPA # 1-4-0

57104 1 L
57105 6 X 1 L
57102 4 L
57103 4 X 4 L
57106 19 L

Specific Gravity 0.640

O-PHENANTHROLINE

See 1,10-Phenanthroline Monohydrate

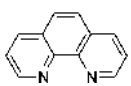
1,10-PHENANTHROLINE, ANHYDROUS — ITEM 3162

$C_{12}H_8N_2$ F.W. 180.22

Assay (GC-FID), 98.5% min
H2O (KF), 1.0% max

CAS # 66-71-7 DOT 6.1/III NFPA # 2-1-0

57481 5 G
57482 25 G
57483 100 G



1,10-PHENANTHROLINE MONOHYDRATE, REAGENT (ACS) — ITEM 162

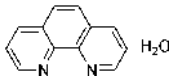
o-Phenanthroline, ortho-Phenanthroline. Reagent for the colorimetric determination of iron. Base for oxidation-reduction indicator.

$C_{12}H_8N_2 \bullet H_2O$ F.W. 198.21

Suitability as Redox Indicator - Pass Test
Suitability for Determining Iron - Pass Test
H2O (KF), 11.0% max

CAS # 5144-89-8 DOT 6.1/III NFPA # 2-1-0

57502 5 G
57504 25 G
57506 100 G
57508 1 KG
57509 5 KG



1,10-PHENANTHROLINE SOLUTION, 0.12% in Water — ITEM 321

Suitability as indicator Pass test

CAS # 5144-89-8 DOT NR

57601 500 ML

Specific Gravity 1.000

tris-(1,10-PHENANTHROLINE) FERROUS PERCHLORATE — ITEM 163

Oxidation-reduction indicator

$(C_{12}H_8N_2)_3Fe(ClO_4)_2$ F.W. 795.35

Suitability as indicator - Pass test
Appearance - Bright red solid/powder

CAS # 14586-54-0 DOT 5.1/III

57702 10 G

1,10-PHENANTHROLINE FERROUS SULFATE SOLUTION, 0.025 M in WATER — ITEM 165

Ferroin. 0.025 Molar solution in water. Oxidation-reduction indicator. Meets requirements of Standard methods, APHA, AWWA, AOAC and others. 25 ml lots furnished in polyethylene dropping bottles.

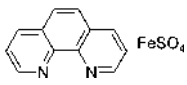
$(C_{12}H_8N_2)_3FeSO_4$ F.W. 692.54

Suitability as indicator - pass test

CAS # 14634-91-4 DOT NR

57801 25 ML
57802 125 ML
57803 250 ML
57804 500 ML
57805 4 L

Specific Gravity 1.000



P

tris-(1,10-PHENANTHROLINE) RUTHENIUM (II) CHLORIDE — ITEM 352

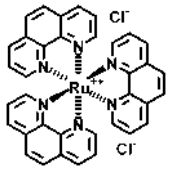
Not on the TSCA inventory.

$[(C_{12}H_8N_2)_3Ru]Cl_2 \bullet XH_2O$ F.W. 712.56

Suitability as indicator (Redox) Color - Orange-red to dark red
Form - Crystal

CAS # 207802-45-7 DOT NR

57531 1 G
57532 5 G
57533 25 G



1,7-PHENANTHROLINE, 98% — ITEM 583

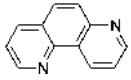
m-Phenanthroline

$C_{12}H_8N_2$ F.W. 180.22

Assay (Nonaqueous titration), 97.5% - 102.5% Appearance - White to tan powder/solid

CAS # 230-46-6 DOT NR

57201 1 G
57202 5 G



4,7-PHENANTHROLINE, 98% — ITEM 584

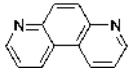
p-Phenanthroline

$C_{12}H_8N_2$ F.W. 180.22

Assay (Non-aqueous titration), 97.5% - 102.5% Appearance - White to tan powder/crystal

CAS # 230-07-9 DOT NR

57301 1 G
57302 5 G
57303 25 G



PHENOL, REAGENT (ACS), LOOSE CRYSTALS — ITEM 980

C_6H_5OH F.W. 94.11

Assay 99.0% min. Freezing point 40.5 C min.
Residue after evaporation 0.05% Water 0.5%
Clarity of solution - pass test Stabilizer (H3PO2) 0.15% max

CAS # 108-95-2 DOT 6.1/II NFPA # 3-2-0

58151 100 G
58152 500 G

PHENOL, LIQUID — ITEM 5597

C_6H_5OH F.W. 94.11

Assay 89% min. Residue after evaporation 0.05% max.

CAS # 108-95-2 DOT 6.1/II NFPA # 3-2-0

18971 500 ML
18972 4 L

Specific Gravity 1.070

PHENOLDISULFONIC ACID, SOLUTION — ITEM 2963

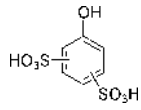
Made per Reagent Chemicals, 10th ed., p 104.

$HOC_6H_3(SO_3H)_2$

Identity - Pass test

CAS # 96-77-5 DOT 6.1/8/II

58173 500 ML



PHENOLPHTHALEIN, REAGENT (ACS) — ITEM 699

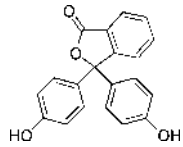
3,3-bis(p-Hydroxyphenyl)phthalide

$C_{20}H_{14}O_4$ F.W. 318.33

Clarity of solution - pass test Visual transition pH 8.0-10, colorless to red

CAS # 77-09-8 DOT NR NFPA # 1-1-1

58201 100 G
58202 500 G
58203 2.5 KG
58204 10 KG



PHENOLPHTHALEIN SOLUTION, 1% ITEM 726

pH indicator in denatured alcohol.

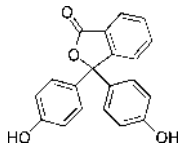
$C_{20}H_{14}O_4$ F.W. 318.33

Clarity of solution Pass test
Visual transition interval colorless to red
pH indicator range 8.0-10

CAS # 77-09-8 DOT 3/II NFPA # 0-3-0

58221 500 ML

Specific Gravity 0.790



PHENOLPHTHALEIN SOLUTION, 0.08% ITEM 2094

In 50% Alcohol

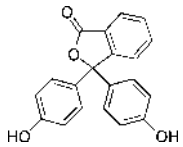
$C_{20}H_{14}O_4$ F.W. 318.33

Clarity of solution Pass Test
Visual transition interval Colorless to red
pH indicator range 8.0-10

CAS # 77-09-8 DOT 3/II NFPA # 0-3-0

24931 500 ML

Specific Gravity 0.920



PHENOL RED, SODIUM SALT, REAGENT (ACS) ITEM 790

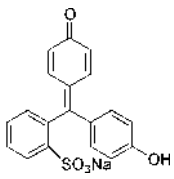
Phenolsulfonphthalein

$C_{19}H_{13}O_5SNa$ F.W. 376.36

Visual transition pH 6.8-8.2
yellow to red
Suitability as an indicator - Pass Test

CAS # 34487-61-1 DOT NR NFPA # 1-1-1

58301 5 G
58302 25 G



PHENOL RED SOLUTION, 0.04% AQUEOUS ITEM 2095

$C_{19}H_{13}O_5SNa$ F.W. 376.36

Visual transition interval yellow to red
pH indicator range 6.8-8.2

CAS # 34487-61-1 DOT NR

24941 500 ML

Specific Gravity 1.000

PHENOLSULFONPHTHALEIN

See Phenol Red

PHENYLACETYLENE, 98+% ITEM 3279

Light sensitive.

$C_6H_5C{\equiv}CH$ F.W. 102.14

Assay (GC-FID), 98.0% min
Identification by GC/MS - Conforms
Color - Colorless to yellow
Clarity / Form - Clear, liquid

CAS # 536-74-3 DOT 3/III

82732 100 G
82733 500 G
82734 2 KG
82735 15 KG
82736 55 KG
82737 185 KG

Specific Gravity 0.928

PHENYLACETYLENE, 95% ITEM 4490

$C_6H_5C{\equiv}CH$ F.W. 102.14

Assay (GC-FID), 94.0% min
Color - Colorless to dark yellow
Clarity / Form - Clear, liquid

CAS # 536-74-3 DOT 3/III

17191 1 KG
17192 10 KG
17193 100 KG

Specific Gravity 0.928

PHENYLARSINE OXIDE, SOLUTION, 0.00564 N ITEM 2286

For APHA and ASTM procedures for chlorine

C_6H_5AsO F.W. 168.03

Concentration 0.00564 ± 0.00005 N

CAS # 637-03-6 DOT NR

58361 500 ML
58362 4 L

Specific Gravity 1.033

N-PHENYLBENZENEAMINE

See Diphenylamine

4-PHENYL-1-BUTENE, 98% ITEM 3280

Not on the TSCA inventory.

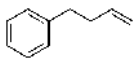
$C_6H_5CH_2CH_2CH=CH_2$ F.W. 132.21

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 768-56-9 DOT 3/III

82741	25 G
82742	100 G
82744	500 G

Specific Gravity 0.880



1-PHENYL-1-BUTYNE, 97% ITEM 3400

Not on the TSCA inventory.

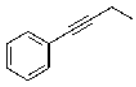
$C_6H_5C{\equiv}CCH_2CH_3$ F.W. 130.19

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 622-76-4 DOT 3/III

89571	10 G
89572	50 G
89573	500 G

Specific Gravity 0.916



4-PHENYL-1-BUTYNE, 97% ITEM 3281

Not on the TSCA inventory.

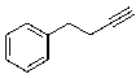
$C_6H_5CH_2CH_2C{\equiv}CH$ F.W. 130.19

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Color, 150 APHA max. Appearance, Clear liquid

CAS # 16520-62-0 DOT NR

82751	5 G
82752	25 G
82753	100 G
82754	500 G

Specific Gravity 0.926



2-PHENYL-3-BUTYN-2-OL, 99% ITEM 3282

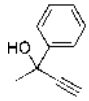
$HC{\equiv}CC(OH)(C_6H_5)CH_3$ F.W. 146.19

Assay (GC-FID), 98.5% min Melting point 3 deg range within 47 - 53 C
FT-IR Spectra - Conforms Identification by GC/MS - Conforms
Appearance - White to off white crystal

CAS # 127-66-2 DOT NR

82761	10 G
82762	50 G
82764	500 G

Specific Gravity 1.031



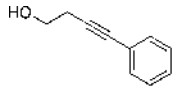
4-PHENYL-3-BUTYN-1-OL ITEM 3946

Not on the TSCA inventory.

$HOCH_2CH_2C{\equiv}CC_6H_5$ F.W. 146.19

CAS # 1817-51-2

Please Inquire For Sizes



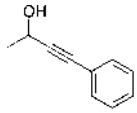
4-PHENYL-3-BUTYN-2-OL ITEM 3947

Powerful lachrymator. Not on the TSCA inventory.

$CH_3CH(OH)C{\equiv}CC_6H_5$ F.W. 146.19

CAS # 5876-76-6

Please Inquire For Sizes



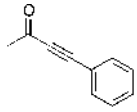
4-PHENYL-3-BUTYN-2-ONE ITEM 3948

Powerful lachrymator. Not on the TSCA inventory.

$C_6H_5C{\equiv}CCOCH_3$ F.W. 144.17

CAS # 1817-57-8

Please Inquire For Sizes



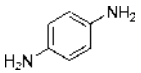
1,4-PHENYLENEDIAMINE, 97% — ITEM 2753

$C_6H_4(NH_2)_2$ F.W. 108.14

Assay 97% min.

CAS # 106-50-3 DOT 6.1/III

58421	100 G
58422	500 G



PHENYL ETHER, 99% — ITEM 2754

Diphenyl ether

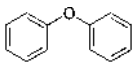
$(C_6H_5)_2O$ F.W. 170.21

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms

CAS # 101-84-8 DOT 9/III

58441	250 G
58442	1 KG

Specific Gravity 1.073



1,4-bis-(PHENYLETHYNYL) BENZENE, 97% — ITEM 3008

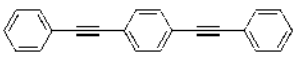
Not on the TSCA inventory.

$C_6H_4(C{\equiv}CC_6H_5)_2$ F.W. 278.35

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Color - White to light yellow Form - Crystal or powder

CAS # 1849-27-0 DOT NR

80071	5 G
80072	25 G
80073	100 G
80074	500 G
80075	2.5 KG
80076	10 KG



4-(PHENYLETHYNYL)PHTHALIC ANHYDRIDE, 98% — ITEM 5588

$C_6H_5C{\equiv}CC_6H_3(CO)_2O$ F.W. 248.24

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Yellow to tan powder/crystal

CAS # 119389-05-8 DOT NR

18231	5 G
18232	25 G
18233	100 G
18234	500 G

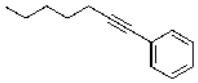
1-PHENYL-1-HEPTYNE — ITEM 3949

Not on the TSCA inventory.

$C_6H_5C{\equiv}C(CH_2)_4CH_3$ F.W. 172.27

CAS # 14374-45-9

Please Inquire For Sizes



1-PHENYL-1-HEXYNE, 98% — ITEM 3950

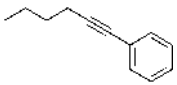
Not on the TSCA inventory.

$C_6H_5C{\equiv}C(CH_2)_3CH_3$ F.W. 158.25

Assay (GC-FID) 97.5% min. Identification by GC-MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 1129-65-3 DOT NR

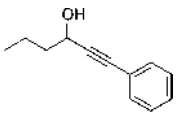
Please Inquire For Sizes



1-PHENYL-1-HEXYN-3-OL — ITEM 3951

Not on the TSCA inventory.

$C_6H_5C{\equiv}CCH(OH)(CH_2)_2CH_3$ F.W. 174.24



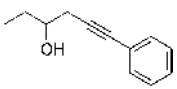
6-PHENYL-5-HEXYN-3-OL — ITEM 3952

Not on the TSCA inventory.

$C_6H_5C{\equiv}CCH_2CH(OH)CH_2CH_3$ F.W. 174.24

CAS # 135663-98-8

Please Inquire For Sizes



P

PHENYLHYDRAZINE, 97% ITEM 2755

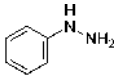
$C_6H_5NHNH_2$ F.W. 108.14

Assay (GC-FID), 96.5% min
Color- Colorless to light orange
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid when >18 C

CAS # 100-63-0 DOT 6.1/II

58491	100 G
58492	500 G
58493	2.5 KG

Specific Gravity 1.099



P

PHENYLHYDRAZINE HYDROCHLORIDE, 99%, REAGENT ITEM 2345

$C_6H_5NHNH_2 \bullet HCl$ F.W. 144.61

Assay (AgNO3 titration), 98.5% - 101.5%
Residue after ignition, 0.05% max
Water solubility - Pass test

CAS # 59-88-1 DOT 6.1/III NFPA # 3-1-0

58501	100 G
58502	500 G
58513	2.5 KG

PHENYLMAGNESIUM BROMIDE, 1.0-1.2M, in TETRAHYDROFURAN ITEM 5239

C_6H_5MgBr F.W. 181.33

Concentration 1.0-1.2 M

CAS # 100-58-3 DOT 4.3/3/II

Please Inquire For Sizes

Specific Gravity 1.134

PHENYLMAGNESIUM CHLORIDE, 2 M, in TETRAHYDROFURAN ITEM 2974

C_6H_5MgCl F.W. 136.87

Active concentration, 1.8 M minimum
Density (g/mL), Report

CAS # 100-59-4 DOT 4.3/3/II

58533	18.5 L
58534	55 L
58535	200 L

Specific Gravity 1.042

PHENYLMAGNESIUM CHLORIDE, 1 M, in DIBUTYL ETHER ITEM 5233

C_6H_5MgCl F.W. 136.87

Concentration 0.8-1.0 M

CAS # 100-59-4 DOT 4.3/3/II NFPA # 2-3-3

Please Inquire For Sizes

PHENYL MERCURIC NITRATE, BASIC ITEM 2464

$(C_6H_5Hg)_2NO_3OH$ F.W. 634.42

Melting point 176-186 C
Not on TSCA inventory

CAS # 8003-05-2 DOT 6.1/II

83811	10 G
83812	50 G
83813	250 G

4-PHENYL-2-METHYL-3-BUTYN-2-OL, 98% ITEM 3283

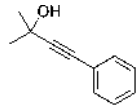
Not on the TSCA inventory.

$C_6H_5C{\equiv}CC(OH)(CH_3)_2$ F.W. 160.22

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms

CAS # 1719-19-3 DOT 9/III

82770	5 G
82771	25 G
82772	100 G
82773	1 KG

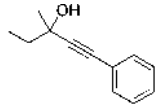


1-PHENYL-3-METHYL-1-PENTYN-3-OL ITEM 3953

$C_6H_5C{\equiv}CC(OH)(CH_3)CH_2CH_3$ F.W. 174.24

CAS # 1966-65-0

Please Inquire For Sizes



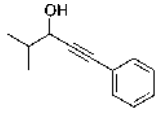
1-PHENYL-4-METHYL-1-PENTYN-3-OL ITEM 3954

Not on the TSCA inventory.

$C_6H_5C{\equiv}CCH(OH)CH(CH_3)_2$ F.W. 174.24

CAS # 5923-02-4

Please Inquire For Sizes



1-PHENYL-1-NONYNE, 98% ITEM 3955

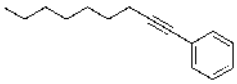
Not on the TSCA inventory.

$C_6H_5C{\equiv}C(CH_2)_6CH_3$ F.W. 200.33

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 57718-18-0 DOT NR

17081	5 G
17082	25 G
17083	100 G



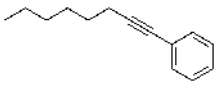
1-PHENYL-1-OCTYNE ITEM 3956

Not on the TSCA inventory.

$C_6H_5C{\equiv}C(CH_2)_5CH_3$ F.W. 186.30

CAS # 16967-02-5

Please Inquire For Sizes



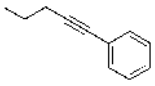
1-PHENYL-1-PENTYNE ITEM 3957

Not on the TSCA inventory.

$C_6H_5C{\equiv}C(CH_2)_2CH_3$ F.W. 144.22

CAS # 4250-81-1

Please Inquire For Sizes



5-PHENYL-1-PENTYNE, 98% ITEM 3284

Not on the TSCA inventory.

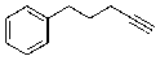
$C_6H_5(CH_2)_3C{\equiv}CH$ F.W. 144.22

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 1823-14-9 DOT NR

82783	5 G
82782	25 G
82784	100 G
82785	1 KG

Specific Gravity 0.921



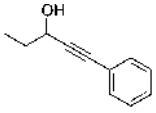
1-PHENYL-1-PENTYN-3-OL ITEM 3958

Not on the TSCA inventory.

$C_6H_5C{\equiv}CCH(OH)CH_2CH_3$ F.W. 160.22

CAS # 27975-78-6

Please Inquire For Sizes



1-PHENYLPROPARGYL ALCOHOL

See 1-Phenyl-2-Propyn-1-ol

PHENYL PROPARGYL ETHER, 98% ITEM 3285

Not on the TSCA inventory.

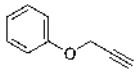
$C_6H_5OCH_2C{\equiv}CH$ F.W. 132.16

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 13610-02-1 DOT NR

82791	25 G
82792	100 G

Specific Gravity 1.030



1-PHENYL-1-PROPYNE, 98% ITEM 3286

Not on the TSCA inventory.

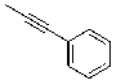
$CH_3C{\equiv}CC_6H_5$ F.W. 116.16

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Color - Colorless to yellow Clarity / Form - Clear, liquid

CAS # 673-32-5 DOT 3/III

82803	5 G
82801	25 G
82802	100 G
82804	1 KG

Specific Gravity 0.939



P

3-PHENYL-1-PROPYNE, 97% ITEM 3423

Inhibited with 250 ppm BHT. Not on the TSCA inventory.

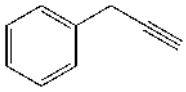
$C_6H_5CH_2C{\equiv}CH$ F.W. 116.16

Assay (GC-FID), 96.5% min
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid
Inhibitor (BHT) - Confirm presence
Color - Colorless to light yellow

CAS # 10147-11-2 DOT 3/III

89972	5 G
89973	25 G
89974	100 G
89975	1 KG

Specific Gravity 0.934



1-PHENYL-2-PROPYN-1-OL, 98% ITEM 3287

Not on the TSCA inventory. Low melting solid. Avoid storage in glass to avoid potential breakage.

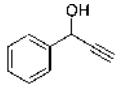
$HC{\equiv}CCH(OH)C_6H_5$ F.W. 132.16

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms

CAS # 4187-87-5 DOT NR

82811	25 G
82812	100 G
82814	500 G

Specific Gravity 1.062



3-PHENYL-2-PROPYN-1-OL, 98+% ITEM 3288

Not on the TSCA inventory.

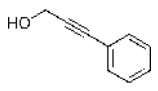
$C_6H_5C{\equiv}CCH_2OH$ F.W. 132.16

Assay (GC-FID), 98.0% min
Appearance - Clear, colorless to yellow liquid
Identification by GC/MS - Conforms

CAS # 1504-58-1 DOT 9/III

82820	1 G
82821	10 G
82822	50 G
82823	250 G
82824	1 KG

Specific Gravity 1.078



1-PHENYL-1-PROPYN-3-OL

See 3-Phenyl-2-Propyn-1-ol

3-(4-PHENYL-2-PYRIDYL)-5-PHENYL-1,2,4-TRIAZINE (PPT) ITEM 727

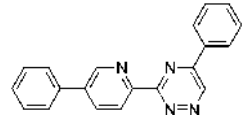
Most sensitive iron chromogen available. See Schilt et. al. Talanta 24, 685-687 (1977). e=34,800

$C_{20}H_{14}N_4$ F.W. 310.36

Melting point 180-182 C
Sensitivity to iron - Pass Test

CAS # 108775-05-9 DOT NR

59401	1 G
59402	5 G



3-(4-PHENYL-2-PYRIDYL)-5-PHENYL-1,2,4-TRIAZINE DISULFONIC ACID, DISODIUM SALT, (PPTS) ITEM 728

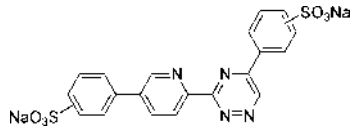
Most sensitive water soluble iron chromogen available. e=32,900

$C_{20}H_{12}N_4O_6S_2Na_2$ F.W. 514.46

Sensitivity to iron - Pass Test

CAS # 108775-03-7 DOT NR

59451	1 G
59452	5 G



3-(4-PHENYL-2-PYRIDYL)-5,6-DIPHENYL-1,2,4-TRIAZINE (PPDT) ITEM 661

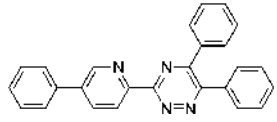
Reagent for the determination of iron. Schilt and Hoyle, Anal. Chem., 39, 114 (1967)

$C_{26}H_{18}N_4$ F.W. 386.47

Melting point 191-193 C

CAS # 1058-71-5 DOT NR

59001	1 G
59002	5 G
59003	10 G



3-(4-PHENYL-2-PYRIDYL)-5,6-DIPHENYL-1,2,4-TRIAZINE TRISULFONIC ACID, TRISODIUM SALT, (PPDTS) ITEM 662

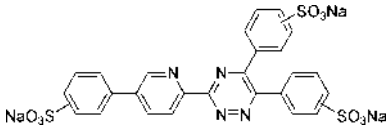
Water soluble high-sensitivity reagent for iron. Traister and Schilt, Anal. Chem., 48, 1216 (1976)

$C_{26}H_{15}N_4(SO_3Na)_3$ F.W. 692.59

Sensitivity to iron Pass Test

CAS # 108775-02-6 DOT NR

59051	1 G
59052	5 G
59053	10 G



PHENYLTRIMETHYLSILANE, 98% ITEM 3290

Requires refrigeration.

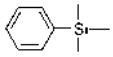
$C_6H_5Si(CH_3)_3$ F.W. 150.30

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 768-32-1 DOT 3/III

82843	5 G
82841	25 G
82842	100 G

Specific Gravity 0.873



1-PHENYL-2-TRIMETHYLSILYLACETYLENE, 99% ITEM 3289

Not on the TSCA inventory.

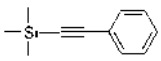
$(CH_3)_3SiC{\equiv}CC_6H_5$ F.W. 174.32

Assay 99% min.

CAS # 2170-06-1 DOT 9/III

82832	50 G
82833	250 G

Specific Gravity 0.886



pH INDICATOR STICKS

See Indicator Sticks pH 0-14

PHOSPHATE, 1,000 ppm, ION CHROMATOGRAPHY STANDARD SOLUTION ITEM 3769

Concentration (as PO4) 1,000 ± 10 ug/ml Matrix: KH2PO4, water

DOT NR

23961	100 ML
23962	500 ML

Specific Gravity 1.000

PHOSPHATE, 1,000 ppm ION STANDARD SOLUTION ITEM 758

IC, colorimetric or volumetric standard

Concentration (as PO4) 1,000 ug/ml Matrix: Sodium phosphate dibasic in water

NIST Traceable

DOT NR NFPA # 0-0-0

70280	100 ML
70282	500 ML

Specific Gravity 1.000

PHOSPHATE BUFFER for B.O.D., pH about 7.2 ITEM 9383

APHA for B.O.D.

pH 7.2 ± 0.05

DOT NR

20121	500 ML
20122	4 L

PHOSPHATE BUFFER FOR CHLORINE, pH 7 ITEM 2182

pH (@ 25 C) 7.0 ± 0.5

DOT NR

59521	500 ML
59522	6 X 500 ML
59525	1 L
59523	4 L

PHOSPHINIC ACID

See Hypophosphorous Acid Solution

PHOSPHOMOLYBDIC ACID, REAGENT (ACS) ITEM 791

$H_3PMo_{12}O_{40}{\bullet}xH_2O$ F.W. 1825.25 + XH2O

Insoluble 0.01%
Sulfate 0.025%
Calcium 0.02%
Iron 0.005%
Chloride 0.02%
Ammonium 0.01%
Heavy metals (Pb) 0.005%

CAS # 51429-74-4 DOT 8/III NFPA # 2-0-1

59551	25 G
59552	100 G
59553	500 G

P

PHOSPHORIC ACID, 99.999%, 85% SOLUTION — ITEM 5453

H_3PO_4 F.W. 98.00

Assay (metals basis) 99.999% Assay (acid-base) 85.0% min.

CAS # 7664-38-2 DOT 8/III NFPA # 2-0-2

15471	100 ML GL
15472	500 ML GL
15473	2 L GLASS
T **15474**	250 ML
T **15475**	500 ML
T **15476**	2 L

T = FEP Bottle

PHOSPHORIC ACID, 85%, SUPERIOR REAGENT (ACS) — ITEM 1589

H_3PO_4 F.W. 98.00

Assay 85.0% min.
Insoluble matter 0.001%
Chloride 0.0003%
Sulfate 0.002%
Color (APHA) 10 max.
Reducing substances -pass test
Nitrate 0.0005%
Volatile acids (as CH3COOH) 0.001%

Al 0.5 ppm
Ca 2 ppm
Cu 0.1 ppm
Li 0.1 ppm
Na 3 ppm
Sb 10 ppm
Zn 2 ppm
As 0.1 ppm
Co 0.1 ppm
Fe 2 ppm
Mg 0.2 ppm
Ni 0.2 ppm
Sr 0.1 ppm
Au 0.5 ppm
Cr 0.2 ppm
K 2 ppm
Mn 0.1 ppm
Pb 0.3 ppm
Ti 0.3 ppm

CAS # 7664-38-2 DOT 8/III NFPA # 2-0-2

59591	500 ML
59593	6 X 500 ML
59592	2.5 L
59594	4 X 2.5 L
59597	2.5 L PVC
59593	4X2.5L PVC
59596	20 L

Specific Gravity 1.690

PHOSPHORIC ACID, 85%, REAGENT (ACS) — ITEM 627

H_3PO_4 F.W. 98.00

Assay 85.0% min
Insoluble matter 0.001%
Nitrate 0.0005%
Volatile acids (as CH3COOH) 0.001%
Arsenic 0.0001%
Iron 0.003%/ Antimony 0.002%
Potassium 0.005% / Sodium 0.025%
Color (APHA) 10 max.
Chloride 0.0003%
Sulfate 0.003%
Manganese 0.00005%
Heavy metals (as Pb) 0.001%
Calcium 0.002% / Magnesium 0.002%
Reducing substances - Pass Test

CAS # 7664-38-2 DOT 8/III NFPA # 2-0-2

59601	500 ML
59603	6 X 500 ML
59602	2.5 L
59604	4 X 2.5 L
59610	500 ML PVC
59615	6X500MLPVC
59603	2.5 L PVC
59609	4X2.5L PVC
59606	20 L

Specific Gravity 1.690

PHOSPHORIC ACID, SOLUTION, 15% — ITEM 1279

H_3PO_4 F.W. 98.00

Assay 14.0-16.0%
Insoluble matter, Ca, Mg, and NH4OH ppt 0.0005%
Nitrate 0.0005%
Volatile acids (as CH3COOH) 0.001%
Arsenic 0.0001%
Iron 0.003%
Sodium 0.025%
Color (APHA) 10 max.
Chloride 0.0003%
Sulfate 0.003%
Antimony 0.002%
Heavy metals (Pb) 0.001%
Manganese 0.00005%
Reducing substances -pass test

CAS # 7664-38-2 DOT 8/III NFPA # 2-0-2

59611	2.5 L
59612	4 X 2.5 L

Specific Gravity 1.080

PHOSPHOROUS ACID — ITEM 3566

H_3PO_3 F.W. 82.00

Assay 99%

CAS # 13598-36-2 DOT 8/III NFPA # 3-0-1

59641	100 G
59642	500 G
59643	2.5 KG

PHOSPHORUS, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1780

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III

22800	100 ML
22802	500 ML

Specific Gravity 1.030

PHOSPHORUS, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1779

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III

22790	100 ML
22792	500 ML

Specific Gravity 1.030

PHOSPHORUS PENTOXIDE, 99.99+% — ITEM 3620

P_2O_5 F.W. 141.94

Assay (metals basis) 99.99+%

CAS # 1314-56-3 DOT 8/II NFPA # 2-0-3

59581	50 G
59582	250 G
59583	1 KG

PHOSPHORUS PENTOXIDE, REAGENT (ACS) ITEM 982

P_2O_5 F.W. 141.94

Assay 98.0% min.
Ammonium 0.01%
Phosphorus trioxide -pass test
Insoluble 0.02%
Heavy metals (Pb) 0.01%

CAS # 1314-56-3 DOT 8/II NFPA # 2-0-3

59631	100 G
59632	500 G
59633	1 KG

PHOSPHORUS TRIBROMIDE, 97% ITEM 2757

PBr_3 F.W. 270.70

Assay (AgNO3-Titration), 96.5% - 103.5%
Appearance - Clear, colorless to yellow liquid

CAS # 7789-60-8 DOT 8/II NFPA # 3-0-2

59671	50 G
59672	250 G
59673	1 KG
59674	4 KG

Specific Gravity 2.850

PHOSPHOTUNGSTIC ACID, REAGENT ITEM 792

$P_2O_5 \bullet 24WO_3 \bullet xH_2O$ F.W. 5706.30 + XH2O

Insoluble 0.01%
Nitrate 0.005%
Heavy metals (Pb) 0.005%
Ammonium 0.01%
Chloride 0.01%
Sulfate 0.02%
Iron 0.002%

CAS # 12067-99-1 DOT NR NFPA # 1-0-1

59651	25 G
59652	100 G
59653	500 G
59656	2.5 KG
59654	10 KG

PHTHALALDEHYDE

See o-Phthaldialdehyde

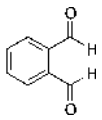
o-PHTHALDIALDEHYDE, 98% ITEM 5298

$C_8H_6O_2$ F.W. 134.13

Assay (GC-FID), 97.5% min
Appearance - Yellow crystal/solid

CAS # 643-79-8 DOT NR

15121	10 G
15122	50 G
15123	250 G



PHTHALEIN PURPLE

See Metalphthalein

PHTHALIC ACID, REAGENT (ACS) ITEM 2409

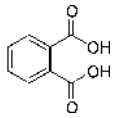
1,2-Benzenedicarboxylic Acid

$C_6H_4(COOH)_2$ F.W. 166.13

Assay 99.5% min
Residue after ignition (as SO4) 0.02%
Nitrate 0.005%
Heavy Metals (as Pb) 0.001%
Water (H2O) 0.5%
Insoluble matter 0.05%
Chloride 0.001%
Sulfate 0.005%
Iron 0.001%

CAS # 88-99-3 DOT NR NFPA # 0-1-1

88261	100 G
88262	500 G



PHTHALIC ACID, DIPOTASSIUM SALT

See Dipotassium Phthalate, 98%

PHTHALIC ANHYDRIDE, REAGENT (ACS) ITEM 700

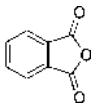
Appearance - white flaky crystal

$C_6H_4(CO)_2O$ F.W. 148.12

Assay 99.0-100.2%
Residue after ignition 0.01%
Sulfate 0.003%
Iron 0.0005%
Melting point 3 C range including 131 C
Chloride 0.002%
Heavy metals (as Pb) 0.0005%

CAS # 85-44-9 DOT NR NFPA # 3-1-0

59801	500 G
59802	2.5 KG
59804	50 KG



PHTHALIC DIALDEHYDE

See o-Phthaldialdehyde

6-PHTHALIMIDO-1-HEXYNE

See N-(5-Hexynyl)phthalimide

p-HYDROXYPHENOL

See Hydroquinone, 99%

P

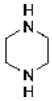
PIPERAZINE, 99% — ITEM 2758

$C_4H_{10}N_2$ F.W. 86.14

Assay (GC-FID), 98.5% min Appearance - White to off-white solid/crystal

CAS # 110-85-0 DOT 8/III NFPA # 2-2-0

59831 100 G
59832 500 G



PIPERAZINE-N,N'-bis (2-ETHANESULFONIC ACID) — ITEM 2362

PIPES

$N_2C_4H_8(C_2H_4SO_3H)_2$ F.W. 302.37

Assay (by titration) 99% pH of 5% aqueous slurry 2.9-3.1

CAS # 5625-37-6 DOT NR

27561 10 G
27562 50 G

PIPERAZINE-N,N'-bis (3-PROPANESULFONIC ACID) — ITEM 2361

PIPPS. NOT on the TSCA Inventory

$N_2C_4H_8(C_3H_6SO_3H)_2$ F.W. 330.43

Assay (by Titration) 95% min

CAS # 5625-56-9 DOT NR

27551 10 G
27552 50 G

PIPES

See Piperazine-N,N'-Bis(2-Ethanesulfonic Acid)

PIPPS

See Piperazine-N,N'-Bis(3-Propanesulfonic Acid)

PLATINIC CHLORIDE

See Chloroplatinic Acid, Hexahydrate

PLATINUM, 99.999%, POWDER — ITEM 5059

Pt F.W. 195.09

Assay (metals basis) 99.999% min.

CAS # 7440-06-4 DOT 4.1/II

87551 250 MG
87552 1 G

PLATINUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1782

Concentration 10,000 ± 100 ug/ml Matrix: 20% Hydrochloric acid
NIST Traceable

DOT 8/II NFPA # 2-0-2

22820 100 ML
22822 500 ML

Specific Gravity 1.040

PLATINUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1781

Concentration 1,000 ± 10 ug/ml Matrix: 20% Hydrochloric acid
NIST Traceable

DOT 8/II NFPA # 2-0-2

22810 100 ML
22812 500 ML

Specific Gravity 1.040

PLATINUM CATALYST

See Royer Platinum Catalyst Beads

PLATINUM CHLORIDE — ITEM 983

Platinum content 72.20% min.

$PtCl_2$ F.W. 266.00

Assay 98.5% min.

CAS # 10025-65-7 DOT NR NFPA # 3-0-1

59851 1 G
59852 5 G

POLY(ETHYLENE GLYCOL)200 — ITEM 3501

Average molecular weight about 200

$H(OCH_2CH_2)_nOH$

Average M.W. (typical) 190-210 Water 0.5%

CAS # 25322-68-3 DOT NR

59691 250 G
59692 1 KG

Specific Gravity 1.127

POLY(ETHYLENE GLYCOL) 300 — ITEM 3382

Average molecular weight about 300.

$H(OCH_2CH_2)_nOH$

Average M.W. (typical) 285-315 Water 0.5%

CAS # 25322-68-3 DOT NR NFPA # 0-1-0

83761 250 G
83762 1 KG

Specific Gravity 1.127

POLY(ETHYLENE GLYCOL)400 ITEM 3502

Average molecular weight about 400

$H(OCH_2CH_2)_nOH$

Average M.W. (typical) 380-420 Water 0.5%

CAS # 25322-68-3 DOT NR

59701 250 G
59702 1 KG

Specific Gravity 1.126

POLY(ETHYLENE GLYCOL)600 ITEM 3503

Average molecular weight about 600

$H(OCH_2CH_2)_nOH$

Average M.W. (typical) 570-630 Water 0.5%

CAS # 25322-68-3 DOT NR

59711 250 G
59712 1 KG

Specific Gravity 1.126

POLY(ETHYLENE GLYCOL)900 ITEM 3504

Average molecular weight about 900

$H(OCH_2CH_2)_nOH$

Average M.W. (typical) 855-945 Water 0.5%

CAS # 25322-68-3 DOT NR

59721 250 G
59722 1 KG

Specific Gravity 1.093

POLY(ETHYLENE GLYCOL)1000 ITEM 3505

Average molecular weight about 1000

$H(OCH_2CH_2)_nOH$

Average M.W. (typical) 950-1050 Water 0.5%

CAS # 25322-68-3 DOT NR

59731 250 G
59732 1 KG
59733 4 KG
59734 15 KG

Specific Gravity 1.093

POLY(ETHYLENE GLYCOL)1500 ITEM 3506

Average molecular weight about 1,500

$H(OCH_2CH_2)_nOH$

Average M.W. (typical) 1305-1595

CAS # 25322-68-3 DOT NR

59741 250 G
59742 1 KG

POLY(ETHYLENE GLYCOL)2000 ITEM 3507

Average molecular weight about 2,000

$H(OCH_2CH_2)_nOH$

CAS # 25322-68-3 DOT NR

59751 250 G
59752 1 KG

POLY(ETHYLENE GLYCOL)3400 ITEM 3508

Average molecular weight about 3,400

$H(OCH_2CH_2)_nOH$

Average M.W. (typical) 3015-3685

CAS # 25322-68-3 DOT NR

59761 250 G
59762 1 KG

POLY(ETHYLENE GLYCOL)4000 ITEM 3499

Average molecular weight about 4,000

$H(OCH_2CH_2)_nOH$

Average M.W. (typical) 3,800-4,200

CAS # 25322-68-3 DOT NR

12671 250 G
12672 1 KG

POLY(ETHYLENE GLYCOL)4600 ITEM 3509

Average molecular weight about 4,600

$H(OCH_2CH_2)_nOH$

Average M.W. (typical) 4400-4800

CAS # 25322-68-3 DOT NR

59771 250 G
59772 1 KG

POLY(ETHYLENE GLYCOL)8000 ITEM 3510

Average molecular weight about 8,000.

$H(OCH_2CH_2)_nOH$

Average M.W. (typical) 7000-9000

CAS # 25322-68-3 DOT NR

59781 250 G
59782 1 KG

POLY(ETHYLENE GLYCOL)10,000 ITEM 3511

Average molecular weight about 10,000

$H(OCH_2CH_2)_nOH$

CAS # 25322-68-3 DOT NR

59791 250 G
59792 1 KG

POLYETHYLENIMINE RESIN

See Royer Anion Exchange Resin

POLYGOPREP® 300-20 ITEM 2883

Unmodified, irregular silica. 300 angstrom pore size, 20 micron particle size. Please inquire for other grades.

CAS # 7631-86-9 DOT NR

84811 100 G
84812 500 G
84813 1 KG

POLYGOSIL® 100-5 ITEM 2865

Unmodified, irregular silica. 100 angstrom pore size, 5 micron particle size. Please inquire for other grades.

CAS # 7631-86-9 DOT NR

84631 10 G
84632 50 G
84633 100 G

POLYOXYETHYLENE 300

See Poly(Ethylene Glycol) 300

POLYPHOSPHORIC ACID ITEM 3788

Assay (as H3PO4) 110-120%

CAS # 8017-16-1 DOT 8/III NFPA # 2-0-2

12681 1 KG

Specific Gravity 2.060

POTASH SULFURATED

See Sulfurated Potash

POTASSIUM, 10,000 ppm ICP STANDARD SOLUTION ITEM 1784

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22840 100 ML
22842 500 ML

Specific Gravity 1.030

POTASSIUM, 1,000 ppm ICP STANDARD SOLUTION ITEM 1783

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22830 100 ML
22832 500 ML

Specific Gravity 1.030

POTASSIUM, 1,000 ppm AA STANDARD SOLUTION ITEM 759

For AA, colorimetric and volumetric analysis

Concentration 1,000 ± 10 ug/ml Matrix: Potassium chloride in water
NIST Traceable

DOT NR NFPA # 0-0-0

70290 100 ML
70292 500 ML

Specific Gravity 1.000

POTASSIUM ACETATE, REAGENT (ACS) ITEM 793

$KC_2H_3O_2$ F.W. 98.14

Assay 99.0% min.
pH of 5% solution 6.5-9.0 @ 25C
Phosphate 0.001%
Calcium 0.005%
Iron 0.0005%
Sodium 0.03%
Insoluble 0.005%
Chloride 0.003%
Sulfate 0.002%
Magnesium 0.002%
Heavy metals (as Pb) 0.0005%

CAS # 127-08-2 DOT NR NFPA # 1-1-0

59900 100 G
59901 500 G
59903 10 KG
59904 50 KG

POTASSIUM ACID IODATE

See Potassium Biiodate

POTASSIUM ACID PHTHALATE, PRIMARY STANDARD (ACS) — ITEM 554

$HOCOC_6H_4COOK$ F.W. 204.23

Assay (dried basis) 99.95-100.05%
pH (0.05 M solution) 4.00-4.02 @ 25 C
Sulfur compounds (as S) 0.002%
Iron 0.0005%
Insoluble 0.005%
Chlorine compounds (as Cl) 0.003%
Heavy metals (as Pb) 0.0005%
Sodium 0.005%

CAS # 877-24-7 DOT NR NFPA # 1-0-0

60000	100 G
60001	500 G
60002	2.5 KG
60003	10 KG
60004	50 KG
60005	112 KG
60006	896 KG
60007	5,000 KG

POTASSIUM ACID PHTHALATE, BIO-REFINED™ — ITEM 1926

$HOCOC_6H_4COOK$ F.W. 204.23

Assay 99.5% min.
Loss on drying @ 105 deg. C 0.05%
Chloride (Cl) 0.002%
pH (0.1M in water @ 20 deg. C) 3.5-5.0
Insoluble matter 0.005%
Sulfate (SO4) 0.005%
Absorbance cut off @ 309nm (0.1M in H2O)

Al 5 ppm
Bi 5 ppm
Co 5 ppm
Fe 5 ppm
Mn 5 ppm
Ni 5 ppm
Zn 5 ppm
As 0.1 ppm
Ca 10 ppm
Cr 5 ppm
Li 5 ppm
Mo 5 ppm
Pb 5 ppm
Ba 5 ppm
Cd 5 ppm
Cu 5 ppm
Mg 5 ppm
Na 50 ppm
Sr 5 ppm

CAS # 877-24-7 DOT NR

60012	100 G
60011	500 G

POTASSIUM ACID PHTHALATE, BUFFER GRADE — ITEM 2354

$HOCOC_6H_4COOK$ F.W. 204.23

Assay 99% min.
pH of 0.05 M solution - 4.0

CAS # 877-24-7 DOT NR NFPA # 0-0-1

60021	500 G
60022	2.5 KG
60023	10 KG
60024	50 KG
60025	112 KG
60026	896 KG
60027	5,000 KG

POTASSIUM ALUM

See Aluminum Potassium Sulfate, Dodecahydrate

POTASSIUM ALUMINUM SULFATE

See Aluminum Potassium Sulfate, Dodecahydrate

POTASSIUM ANTIMONY TARTRATE

See Antimony Potassium Tartrate

POTASSIUM BENZOATE, REAGENT — ITEM 1695

C_6H_5COOK F.W. 160.22

Insoluble 0.01%
Sulfate 0.005%
Iron 0.001%
Chloride 0.01%
Heavy Metals 0.001%

CAS # 582-25-2 DOT NR

60051	500 G
60052	2.5 KG

POTASSIUM BICARBONATE, REAGENT (ACS) — ITEM 984

$KHCO_3$ F.W. 100.12

Assay (dried basis) 99.7-100.5%
Chloride 0.001%
Sulfur compounds 0.003%
Calcium 0.002%
Heavy metals (Pb) 0.0005%
Sodium 0.03%
Insoluble 0.01%
Phosphate 0.0005%
Ammonium 0.0005%
Magnesium 0.001%
Iron 0.0005%

CAS # 298-14-6 DOT NR

60101	500 G
60102	2.5 KG
60103	10 KG
60104	50 KG

POTASSIUM BICHROMATE

See Potassium Dichromate

POTASSIUM BIFLUORIDE — ITEM 2284

KHF_2 F.W. 78.11

Assay 98% min.

CAS # 7789-29-9 DOT 8/6.1/II

60151	500 G

POTASSIUM BIIODATE, PRIMARY STANDARD (ACS) — ITEM 75

Standard of reference for alkalimetry and iodimetry

$KH(IO_3)_2$ F.W. 389.94

Assay (acid-base) 99.95-100.05%
Insoluble 0.01%
Sulfate 0.005%
Iron 0.001%
Assay (iodometric) 99.9-100.1%
Chloride + Bromide 0.02%
Heavy metals (as Pb) 0.001%

CAS # 13455-24-8 DOT 5.1/II

60201	25 G
60202	100 G
60203	500 G

P

POTASSIUM BIIODATE, SOLUTION, 0.025 N — ITEM 826

0.002083 mol/L. For iodometric dissolved oxygen test.

$KH(IO_3)_2$ F.W. 389.94

Concentration 0.0250 ± 0.0001 N

CAS # 13455-24-8 DOT NR

60232 500 ML

Specific Gravity 1.000

POTASSIUM BIPHTHALATE

See Potassium Acid Phthalate

POTASSIUM BISULFATE, FUSED

See Potassium Hydrogen Sulfate

POTASSIUM BITARTRATE, REAGENT (ACS) — ITEM 1178

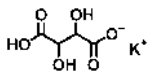
Potassium Hydrogen Tartrate

$KHC_4H_4O_6$ F.W. 188.18

Assay 99.0-101.0%
Chloride 0.005%
Ammonium 0.01%
Iron 0.002%
Sodium 0.05%
Insoluble 0.005%
Sulfate 0.01%
Heavy metals (Pb) 0.001%
Calcium 0.05%

CAS # 868-14-4 DOT NR NFPA # 0-0-0

60251 500 G
60252 2.5 KG



POTASSIUM BOROHYDRIDE — ITEM 5448

KBH_4 F.W. 53.94

Assay 98% min.

CAS # 13762-51-1 DOT 4.3/I

15511 10 G
15512 50 G
15513 250 G

POTASSIUM BROMATE, REAGENT (ACS) — ITEM 555

$KBrO_3$ F.W. 167.00

Assay (dried basis) 99.8% min.
Insoluble 0.005%
Sulfate 0.005%
Iron 0.002%
pH of 5% solution 5.0-9.0
Bromide Pass test
Heavy metals 0.0005%
Sodium 0.01%

CAS # 7758-01-2 DOT 5.1/II NFPA # 1-0-3

60300 100 G
60301 500 G
60302 2.5 KG
60303 10 KG

POTASSIUM BROMATE-BROMIDE, SOLUTION, 0.2 N — ITEM 2546

0.0333 mol/L

$KBrO_3$/KBr

Concentration 0.200 ± 0.005 N

DOT NR

60321 1 L

Specific Gravity 1.000

POTASSIUM BROMATE-BROMIDE, SOLUTION, 0.1 N — ITEM 2270

0.0167 mol/L

$KBrO_3$/KBr

Concentration 0.100 ± 0.005 N

DOT NR

60311 500 ML
60312 4 L
60313 20 L

Specific Gravity 1.013

POTASSIUM BROMIDE, for IR — ITEM 1098

KBr F.W. 119.01

Assay 99.0% min.
pH of solution 5.0-8.8 @25 C
Chloride 0.2%
Sulfate 0.005%
Barium 0.002%
Heavy metals 0.0005%
Sodium 0.02%
Insoluble 0.005%
Bromate 0.001%, Iodate 0.001%
Iodide 0.001%
Calcium 0.002%
Magnesium 0.001%
Iron 0.0005%
Suitability, infrared spectrophotometry-pass test

CAS # 7758-02-3 DOT NR NFPA # 1-0-0

60411 25 G
60412 100 G

POTASSIUM BROMIDE, REAGENT (ACS) — ITEM 729

KBr F.W. 119.01

Assay 99.0% min.
pH of 5% solution 5.0-8.8 @ 25 C
Iodate 0.001%
Iodide 0.001%
Calcium 0.002%
Magnesium 0.001%
Heavy metals (Pb) 0.0005%
Insoluble 0.005%
Bromate 0.001%
Chloride 0.2%
Sulfate 0.005%
Barium 0.002%
Sodium 0.02%
Iron 0.0005%

CAS # 7758-02-3 DOT NR NFPA # 1-0-0

60400 100 G
60401 500 G
60402 2.5 KG
60403 10 KG
60404 50 KG

POTASSIUM tert-BUTOXIDE, REAGENT, 95% — ITEM 2550

$(CH_3)_3COK$ F.W. 112.22

Assay 95% min.

CAS # 865-47-4 DOT 4.2/8/II

60431	50 G
60432	250 G
60433	1 KG
60434	10 KG

POTASSIUM t-BUTOXIDE, 20%, in TETRAHYDROFURAN — ITEM 3781

$(CH_3)_3COK$ F.W. 112.22

Concentration 19-21% Water (as hydroxide) - Report

CAS # 865-47-4 DOT 3/8/II

60421	100 ML
60422	1 L
60423	4 L
60424	18 L
60425	204 L

Specific Gravity 0.906

POTASSIUM CARBONATE, ANHYDROUS, REAGENT (ACS) — ITEM 985

K_2CO_3 F.W. 138.21

Assay 99.0% min.
Chloride 0.003%
Silica 0.005%
Heavy Metals (by ICP-OES) 0.0005%
Calcium 0.005%
Sodium 0.02%
Insoluble 0.01%
Phosphate 0.001%
Sulfur compounds (as SO4) 0.004%
Iron 0.0005%
Magnesium 0.002%

CAS # 584-08-7 DOT NR NFPA # 2-0-1

60441	500 G
60442	2.5 KG
60443	10 KG
60444	50 KG

POTASSIUM CARBONATE, ANHYDROUS, GRANULAR, 99% — ITEM 3640

K_2CO_3 F.W. 138.21

Assay 99%

CAS # 584-08-7 DOT NR

60381	500 G
60382	2.5 KG
60383	10 KG
60384	50 KG

POTASSIUM CARBONATE, ANHYDROUS, POWDER -325 MESH — ITEM 3641

K_2CO_3 F.W. 138.21

Assay 98.0 - 102.0% Assay (as K by ICP) 55.4% min
Particle Size (through 325 mesh) 99% min.

CAS # 584-08-7 DOT NR

60391	250 G
60392	1 KG
60393	5 KG

POTASSIUM CARBONATE, SESQUIHYDRATE, 99.999% — ITEM A5949

$K_2CO_3 \bullet 1\text{-}1/2H_2O$ F.W. 165.23

Assay (metals basis) 99.999%

CAS # 6381-79-9 DOT NR NFPA # 2-0-1

60461	25 G

POTASSIUM CARBONATE, SESQUIHYDRATE, REAGENT (ACS) — ITEM 986

$K_2CO_3 \bullet 1\text{-}1/2H_2O$ F.W. 165.23

Assay 98.5-101.0%
Loss on Heating @ 285 C 14.0-16.5%
Phosphate 0.001%
Sulfur compounds (as SO4) 0.004%
Iron 0.0005%
Magnesium 0.002%
Insoluble 0.01%
Chloride 0.003%
Silica 0.005%
Heavy Metals (by ICP-OES) 0.0005%
Calcium 0.005%
Sodium 0.02%

CAS # 6381-79-9 DOT NR NFPA # 2-0-1

60451	500 G
60452	2.5 KG
60453	10 KG
60454	50 KG

POTASSIUM CHLORATE, BIO-REFINED™ — ITEM 1922

$KClO_3$ F.W. 122.55

Assay 99.5% min.
Insoluble matter 0.005%
Chloride (Cl) 0.001%
Sulfate (SO4) 0.001%
pH (.5M in water @20 deg.C) 5.0-7.0
Bromate (BrO3) <0.015%
Total Nitrogen (N) 0.0005%
Absorbance (1.5 M in H2O) @ 260 nm <0.002
Absorbance (1.5 M in H2O) @ 280 nm <0.001

Al 5 ppm
Bi 5 ppm
Co 5 ppm
Fe 5 ppm
Mn 5 ppm
Ni 5 ppm
Zn 5 ppm
As 0.1 ppm
Ca 10 ppm
Cr 5 ppm
Li 5 ppm
Mo 5 ppm
Pb 5 ppm
Ba 5 ppm
Cd 5 ppm
Cu 5 ppm
Mg 5 ppm
Na 50 ppm
Sr 5 ppm

CAS # 3811-04-9 DOT 5.1/II

60351	500 G

POTASSIUM CHLORATE, REAGENT (ACS) — ITEM 987

$KClO_3$ F.W. 122.55

Assay 99.0% min.
Bromate 0.015%
Sulfate Pass test (about 0.002%)
Iron 0.0003%
Magnesium 0.002%
Insoluble matter 0.005%
Chloride 0.001%
Heavy metals (as Pb) 0.0005%
Calcium 0.002%
Sodium 0.01%

CAS # 3811-04-9 DOT 5.1/II NFPA # 1-0-3

60480	100 G
60481	500 G
60482	2.5 KG
60483	10 KG
60484	50 KG
60485	500 KG
60486	1000 KG

P

POTASSIUM CHLORIDE, 99.998% — ITEM 1217

KCl F.W. 74.55

Assay (metals basis) 99.998% min

CAS # 7447-40-7 DOT NR NFPA # 0-0-0

60493	10 G
60491	50 G
60492	250 G

POTASSIUM CHLORIDE, BIO-REFINED™ — ITEM 1923

KCl F.W. 74.55

Assay 99.5% min.
Loss on drying @105 deg.C 0.2%
Bromide (Br) 0.05%
Phosphate (PO4) 0.0005%
pH (1 M in water @25 deg C) 5.5-7.5
Insoluble matter 0.005%
Iodide (I) 0.002%
Absorbance (1M in H2O) @ 260 nm <0.004
Absorbance (1M in H2O) @ 280 nm <0.002

Al 5 ppm
Bi 5 ppm
Co 5 ppm
Fe 2 ppm
Mn 5 ppm
Ni 5 ppm
Zn 5 ppm
As 0.1 ppm
Ca 10 ppm
Cr 5 ppm
Li 5 ppm
Mo 5 ppm
Pb 5 ppm
Ba 10 ppm
Cd 5 ppm
Cu 5 ppm
Mg 5 ppm
Na 50 ppm
Sr 5 ppm

CAS # 7447-40-7 DOT NR

60361	500 G

POTASSIUM CHLORIDE, REAGENT (ACS) — ITEM 653

KCl F.W. 74.55

Assay 99.0-100.5%
pH of 5% solution 5.4-8.6 @ 25 C
Bromide 0.01%
Phosphate 0.0005%
Barium - Pass Test (about 0.001%)
Magnesium 0.001%
Heavy Metals (by ICP-OES) 0.0005%
Insoluble 0.005%
Iodide 0.002%
Chlorate and Nitrate (as NO3) 0.003%
Sulfate 0.001%
Calcium 0.002%
Sodium 0.005%
Iron 0.0003%

CAS # 7447-40-7 DOT NR NFPA # 0-0-0

60501	500 G
60502	2.5 KG
60503	10 KG
60504	50 KG

POTASSIUM CHLORIDE, 20-60 mesh, REAGENT (ACS) — ITEM 5583

KCl F.W. 74.55

Assay 99.0-100.5%
pH of 5% solution 5.4-8.6 @ 25 C
Bromide 0.01%
Phosphate 0.0005%
Barium - Pass Test (about 0.001%)
Magnesium 0.001%
Heavy metals (as Pb) 0.0005% / Iron 0.0003%
Insoluble 0.005%
Iodide 0.002%
Chlorate and Nitrate (as NO3) 0.003%
Sulfate 0.001%
Calcium 0.002%
Sodium 0.005%
Particle size 20-60 mesh 90% min.

CAS # 7447-40-7 DOT NR NFPA # 0-0-0

Please Inquire For Sizes

POTASSIUM CHLORIDE, 98%, TECHNICAL GRADE — ITEM 2998

KCl F.W. 74.55

Assay 98.0% min.
Particle size -30 mesh 95% min.

CAS # 7447-40-7 DOT NR NFPA # 0-0-0

60371	1 KG
60372	5 KG
60374	50 KG

POTASSIUM CHLORIDE CONDUCTIVITY STANDARD

See Conductivity Standard

POTASSIUM CHLORIDE, SOLUTION, 4 M — ITEM 1179

For pH electrodes. 4 mol/L

KCl F.W. 74.55

Concentration 3.6 M min.

CAS # 7447-40-7 DOT NR NFPA # 0-0-0

60511	500 ML

Specific Gravity 1.100

POTASSIUM CHLORIDE, SOLUTION, 4 M, SATURATED WITH SILVER CHLORIDE — ITEM 9149

KCl F.W. 74.55

Concentration 4.00 ± 0.05 M

CAS # 7447-40-7 DOT NR

20151	500 ML

POTASSIUM CHLORIDE, SOLUTION, 3 M — ITEM 9328

KCl F.W. 74.55

Concentration 3 ± 0.1 M

CAS # 7447-40-7 DOT NR

20141	500 ML

POTASSIUM CHLORIDE, SOLUTION, 1 N ITEM 384

Iron and copper free. 1 mol/L

KCl F.W. 74.55

Concentration 1.00 ± 0.01 N Iron & Copper - Pass test

CAS # 7447-40-7 DOT NR NFPA # 0-0-0

60521 500 ML
60522 2.5 L

Specific Gravity 1.040

POTASSIUM CHLORIDE, 1.2% SOLUTION, IN-SPEC STRAY LIGHT STANDARD ITEM 8384

UV cutoff 200 nm

KCl F.W. 74.55

UV Cutoff at 200nm Suitability as UV-Vis Stray Light indicator

CAS # 7447-40-7 DOT NR

86530 10 MM CELL
86832 60 ML

POTASSIUM CHLOROPLATINATE

See Potassium Tetrachloroplatinate (II), 99.99%
Potassium Hexachloroplatinate (IV)

POTASSIUM CHROMATE, REAGENT (ACS) ITEM 989

K_2CrO_4 F.W. 194.20

Assay 99.0% min.
Chloride 0.005%
Sulfate 0.03%
Sodium 0.02%
Insoluble 0.005%
pH of 5% sol'n @25C - 8.6-9.8
Calcium 0.005%

CAS # 7789-00-6 DOT 6.1/III NFPA # 4-0-2

60563 100 G
60561 500 G
60562 2.5 KG

POTASSIUM CHROMATE, 63% W/V, INDICATOR SOLUTION ITEM 2098

63 g in 100 ml water

K_2CrO_4 F.W. 194.20

Saturated solution @ 20 C - Pass test

CAS # 7789-00-6 DOT 6.1/III NFPA # 4-0-2

24971 500 ML

Specific Gravity 1.300

POTASSIUM CHROMATE, SOLUTION, 5% ITEM 1180

Indicator for volumetric chloride determination.

K_2CrO_4 F.W. 194.20

Suitability for chloride determination - Pass test

CAS # 7789-00-6 DOT NR NFPA # 4-0-2

60551 500 ML

Specific Gravity 1.040

POTASSIUM CHROMIUM SULFATE

See Chromium Potassium Sulfate

POTASSIUM CITRATE, DIBASIC, REAGENT ITEM 5275

Crystals.

$K_2HC_6H_5O_7$ F.W. 268.30

Assay 99.0% min.
pH (5% in CO2 free water) 5.0-5.2
Sulfate 0.02%
Iron 20 ppm
Moisture 0.3% max.
Chloride 0.001%
Heavy Metals (as Pb) 30 ppm

CAS # 3609-96-9 DOT NR

14581 25 G
14582 100 G
14583 500 G

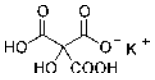
POTASSIUM CITRATE, MONOBASIC, REAGENT ITEM 2263

$KH_2C_6H_5O_7$ F.W. 230.22

Assay (dried basis) 99.0% min.
pH of 5% solution 3.5-4.0
Sulfate 0.005%
Calcium 0.005%
Iron 0.001%
Water 4.0% max.
Insoluble 0.005%
Chloride 0.002%
Phosphate 0.001%
Heavy metals (as Pb) 0.0005%
Sodium 0.05%

CAS # 866-83-1 DOT NR

60740 100 G
60741 500 G
60742 2.5 KG



POTASSIUM CITRATE, MONOBASIC, DIHYDRATE, REAGENT — ITEM 2578

$KH_2C_6H_5O_7 \bullet 2H_2O$ F.W. 266.25

Assay (dried basis) 99% min.
pH of 5% solution 3.5-4.0
Sulfate 0.005%
Calcium 0.005%
Iron 0.001%
Water (LOD @ 70 C) 18.0% max.
Insoluble 0.005%
Chloride 0.002%
Phosphate 0.001%
Heavy metals (as Pb) 0.0005%
Sodium 0.05%
Potassium - report %

CAS # 866-83-1 DOT NR

59951 100 G
59952 500 G
59953 2.5 KG

P

POTASSIUM CITRATE SOLID KARL FISCHER WATER STANDARD

See Watermark Karl Fischer Water Standard, Potassium Citrate

POTASSIUM CITRATE, TRIBASIC, MONOHYDRATE, REAGENT — ITEM 1181

$K_3C_6H_5O_7 \bullet H_2O$ F.W. 324.42

Assay (Dried Basis) 99.0% min.
Chloride 0.001%
Phosphate 0.001%
Heavy metals (as Pb) 0.0005%
Sodium 0.05%
pH of 5% solution 7.0-9.0 @ 25 C
Sulfate 0.005%
Calcium 0.005%
Iron 0.001%
Insoluble 0.005%

CAS # 6100-05-6 DOT NR NFPA # 0-0-0

60591 500 G
60592 2.5 KG
60593 10 KG
60594 50 KG

POTASSIUM COBALTINITRITE — ITEM 5304

Not on the TSCA inventory.

$K_3Co(NO_2)_6$ F.W. 452.25

Assay 98% min.

CAS # 13782-01-9 DOT 5.1/III NFPA # 1-0-0

Please Inquire For Sizes

POTASSIUM COBALT OXALATE

See Potassium Trioxalatocobaltate (III)

POTASSIUM CYANATE, REAGENT — ITEM 1076

KCNO F.W. 81.12

Assay 96% min.
Chloride 0.005%
Iron 0.002%
Insoluble 0.005%
Sulfate 0.05%

CAS # 590-28-3 DOT NR NFPA # 1-0-0

60571 100 G
60572 500 G

POTASSIUM DICHROMATE, CERTIFIED — ITEM 78

Primary standard

$K_2Cr_2O_7$ F.W. 294.19

Assay 99.95-100.05%
Loss on drying 0.05%
Sulfate 0.005%
Sodium 0.02%
Insoluble Matter 0.005%
Chloride 0.001%
Calcium 0.003%
Iron 0.001%

CAS # 7778-50-9 DOT 6.1/II NFPA # 4-0-3

60601 100 G
60602 500 G

POTASSIUM DICHROMATE, REAGENT (ACS) — ITEM 1097

$K_2Cr_2O_7$ F.W. 294.19

Assay 99.0% min.
Chloride 0.001%
Insoluble matter 0.005%
Iron 0.001%
Loss on drying 0.05%
Sulfate 0.005%
Calcium 0.003%
Sodium 0.02%

CAS # 7778-50-9 DOT 6.1/II NFPA # 4-0-3

60630 100 G
60631 500 G
60632 2.5 KG
60633 10 KG
60634 50 KG

POTASSIUM DICHROMATE, 0.5 N, SOLUTION — ITEM 3571

0.0833 mol/L

$K_2Cr_2O_7$ F.W. 294.19

Concentration 0.5000 ± 0.0005 N

CAS # 7778-50-9 DOT NR NFPA # 2-0-1

60671 1 L
60672 4 L

Specific Gravity 1.020

POTASSIUM DICHROMATE, 0.1 N, SOLUTION — ITEM 730

0.0167 mol/L

$K_2Cr_2O_7$ F.W. 294.19

Concentration 0.1000 ± 0.0005 N

CAS # 7778-50-9 DOT NR NFPA # 2-0-1

60621 4 L
60622 4 X 4 L
60623 20 L

Specific Gravity 1.000

POTASSIUM DICHROMATE, 0.025 N, SOLUTION — ITEM 1563

0.00417 mol/L

$K_2Cr_2O_7$ F.W. 294.19

Concentration 0.0250 ± 0.0001 N

CAS # 7778-50-9 DOT NR NFPA # 2-0-1

60611 4 L

Specific Gravity 1.000

POTASSIUM DICHROMATE, UV ABSORBANCE/LINEARITY, 20 mg/L REFERENCE SOLUTION — ITEM 8350

In 0.001 N perchloric acid. For testing the absorbance scale and linearity of UV Spectrophotometers.

$K_2Cr_2O_7$

UV Absorbance @ 235 nm
UV Absorbance @ 257 nm
UV Absorbance @ 313 nm
UV Absorbance @ 350 nm

DOT NR

86480 10 MM CELL
86813 60 ML
86814 125 ML

Specific Gravity 1.000

POTASSIUM DICHROMATE, UV ABSORBANCE/LINEARITY, 40 mg/L REFERENCE SOLUTION — ITEM 8368

In 0.001 N perchloric acid. For testing the absorbance scale and linearity of UV Spectrophotometers.

$K_2Cr_2O_7$

UV Absorbance at 235nm
UV Absorbance at 257nm
UV Absorbance at 313nm
UV Absorbance at 350nm

DOT NR

86481 10 MM CELL
86817 60 ML
86818 125 ML

POTASSIUM DICHROMATE, UV ABSORBANCE/LINEARITY, 60 mg/L REFERENCE SOLUTION — ITEM 8369

In 0.001 N perchloric acid. For testing the absorbance scale and linearity of UV Spectrophotometers.

$K_2Cr_2O_7$

UV Absorbance @ 235 nm
UV Absorbance @ 257 nm
UV Absorbance @ 313 nm
UV Absorbance @ 350 nm

DOT NR

86482 10 MM CELL
86819 60 ML
86820 125 ML

Specific Gravity 1.000

POTASSIUM DICHROMATE, UV ABSORBANCE/LINEARITY, 80 mg/L REFERENCE SOLUTION — ITEM 8348

In 0.001 N perchloric acid. For testing the absorbance scale and linearity of UV Spectrophotometers.

$K_2Cr_2O_7$

UV Absorbance at 235nm
UV Absorbance at 257nm
UV Absorbance at 313nm
UV Absorbance at 350nm

DOT NR

86483 10 MM CELL
86821 60 ML
86822 125 ML

Specific Gravity 1.000

POTASSIUM DICHROMATE, UV ABSORBANCE/LINEARITY, 100 mg/L REFERENCE SOLUTION — ITEM 8372

In 0.001 N perchloric acid. For testing the absorbance scale and linearity of UV Spectrophotometers.

$K_2Cr_2O_7$

UV Absorbance at 235nm
UV Absorbance at 257nm
UV Absorbance at 313nm
UV Absorbance at 350nm

DOT NR

86484 10 MM CELL
86823 60 ML
86824 125 ML

Specific Gravity 1.000

POTASSIUM DICHROMATE, UV ABSORBANCE/LINEARITY, FULL REFERENCE KIT — ITEM 8385

For testing the absorbance scale and linearity of UV Spectrophotometers. Kit contains one 10 mm quartz cell of a blank and each of the following concentrations: 20, 40, 60, 80 and 100 ug/ml.

DOT NR

86532 SET OF 5

POTASSIUM DICYANOAURATE (I)

See Gold Potassium Cyanide

POTASSIUM DIHYDROGEN PHOSPHATE

See Potassium Phosphate, Monobasic

POTASSIUM EDTA

See Dipotassium Dihydrogen Ethylenediamine-tetraacetic Acid, Dihydrate

POTASSIUM FERRICYANIDE, REAGENT (ACS) ITEM 991

$K_3Fe(CN)_6$ F.W. 329.25

Assay 99.0% min
Chloride 0.01%
Ferro compounds 0.05%
Insoluble 0.005%
Sulfate 0.01%

CAS # 13746-66-2 DOT NR NFPA # 1-0-1

60650	100 G
60651	500 G
60652	2.5 KG
60653	10 KG
60654	50 KG

POTASSIUM FERRICYANIDE, TECHNICAL GRADE ITEM 1982

$K_3Fe(CN)_6$ F.W. 329.25

Assay 97% min.
Ferro compounds 0.2%
Sulfate 0.1%
Insoluble 0.05%
Chloride 0.3%

CAS # 13746-66-2 DOT NR

60641	500 G
60642	2.5 KG
60643	10 KG

POTASSIUM FERRICYANIDE, 10% W/V, AQUEOUS SOLUTION ITEM 2100

$K_3Fe(CN)_6$ F.W. 329.25

Concentration 10.0 ± 0.5%

CAS # 13746-66-2 DOT NR

24991	500 ML

Specific Gravity 1.050

POTASSIUM FERROCYANIDE, TRIHYDRATE, REAGENT (ACS) ITEM 992

$K_4Fe(CN)_6 \bullet 3H_2O$ F.W. 422.41

Assay 98.5-102.0%
Chloride 0.01%
Insoluble 0.005%
Sulfate - Pass Test

CAS # 14459-95-1 DOT NR NFPA # 1-0-1

60660	100 G
60661	500 G
60662	2.5 KG
60663	10 KG
60664	50 KG

POTASSIUM FERROCYANIDE, SOLUTION, 10% W/V ITEM 2101

$K_4Fe(CN)_6 \bullet 3H_2O$ F.W. 422.41

Concentration 9.0-11.0%

CAS # 14459-95-1 DOT NR

25001	500 ML

Specific Gravity 1.060

POTASSIUM FLUORIDE, 99.99% ITEM A6021

KF F.W. 58.10

Assay (metals basis) 99.99%

CAS # 7789-23-3 DOT 6.1/III NFPA # 3-0-1

60692	5 G
60691	25 G

POTASSIUM FLUORIDE, REAGENT (ACS) ITEM 993

KF F.W. 58.10

Assay 99.0% min
Titrable base 0.01 meq/g
Chloride 0.005%
Heavy metals (as Pb) 0.001%
Sodium 0.2%
Titrable acid 0.03 meq/g
Potassium fluosilicate 0.1%
Sulfate 0.005%
Iron 0.001%

CAS # 7789-23-3 DOT 6.1/III NFPA # 3-0-1

60701	500 G
60702	2.5 KG
60703	10 KG
60704	50 KG

POTASSIUM FLUORIDE, TECHNICAL ITEM 1993

KF F.W. 58.10

Assay 98.0%
Heavy Metals (as Pb) 0.003%
Chloride 0.05%
Iron 0.005%

CAS # 7789-23-3 DOT 6.1/III

60681	500 G
60683	10 KG

POTASSIUM FLUOROBORATE

See Potassium Tetrafluoroborate, 98.5%

POTASSIUM FLUORONIOBATE

See Potassium Heptafluoroniobate

POTASSIUM FLUOROTANTALATE

See Potassium Heptafluorotantalate

POTASSIUM HEPTAFLUORONIOBATE ITEM A6033

K_2NbF_7 F.W. 304.09

CAS # 16924-03-1 DOT 6.1/II

60722	10 G
60721	50 G

POTASSIUM HEPTAFLUOROTANTALATE, 99% — ITEM A6036

K_2TaF_7 F.W. 392.13

CAS # 16924-00-8 DOT 6.1/II

60732	10 G
60731	50 G

POTASSIUM HEXACHLOROPLATINATE (IV) — ITEM 988

Potassium chloroplatinate (IV)

K_2PtCl_6 F.W. 486.01

Platinum content 39.0% min

CAS # 16921-30-5 DOT NR NFPA # 1-0-0

60541	1 G
60542	5 G

POTASSIUM HEXACHLORORHENATE (IV), 99.99% — ITEM 5065

Not on the TSCA inventory.

K_2ReCl_6 F.W. 477.12

Assay (metals basis) 99.99% min.

CAS # 16940-97-9 DOT NR

87611	1 G
87612	5 G

POTASSIUM HEXAFLUOROZIRCONATE — ITEM 4882

K_2ZrF_6 F.W. 283.41

Identity - pass test

CAS # 16923-95-8 DOT 6.1/III

16751	100 G
16752	500 G
16753	2.5 KG

POTASSIUM HYDROGEN DI-IODATE

See Potassium Biiodate

POTASSIUM HYDROGEN FLUORIDE

See Potassium Bifluoride

POTASSIUM HYDROGEN IODATE

See Potassium Biiodate

POTASSIUM HYDROGEN PHOSPHATE

See Potassium Phosphate, Dibasic

POTASSIUM HYDROGEN PHTHALATE

See Potassium Acid Phthalate

POTASSIUM HYDROGEN SULFATE, FUSED, REAGENT (ACS) — ITEM 2410

Mixture of potassium pyrosulfate and potassium hydrogen sulfate.

$K_2S_2O_7$ F.W. 254.32

Acidity (as H2SO4) 37.5-38.6%
Insoluble matter 0.01%
Phosphate 0.001%
Iron 0.002%
Magnesium 0.001%
Water 2.5%
Chloride 0.002%
Heavy Metals (as Pb) 0.001%
Calcium 0.002%
Sodium 0.01%

CAS # 7790-62-7 DOT 8/II NFPA # 3-0-0

88271	100 G
88272	500 G
88273	2.5 KG

POTASSIUM HYDROGEN SULFATE — ITEM 3643

$KHSO_4$ F.W. 136.17

Acidity (as H2SO4) 35 - 37%

CAS # 7646-93-7 DOT 8/II NFPA # 3-0-0

60761	100 G
60762	500 G
60763	2.5 KG

POTASSIUM HYDROGEN TARTRATE

See Potassium Bitartrate

POTASSIUM HYDROXIDE, REAGENT (ACS) — ITEM 629

Pellets

KOH F.W. 56.11

Assay 85% min.
Chloride 0.01%
Phosphate 0.0005%
Heavy Metals (by ICP-OES) 0.001%
Nickel 0.001%
Magnesium 0.002%
Potassium carbonate 2.0% max.
Nitrogen compounds (N) 0.001%
Sulfate 0.003%
Iron 0.001%
Calcium 0.005%
Sodium 0.05%

CAS # 1310-58-3 DOT 8/II NFPA # 3-0-2

60801	500 G
60802	2.5 KG
60803	10 KG
60804	50 KG

POTASSIUM HYDROXIDE, 45% W/W — ITEM 2290

KOH F.W. 56.11

Assay 45% (w/w) min.

CAS # 1310-58-3 DOT 8/II NFPA # 3-0-2

60871	4 L

Specific Gravity 1.450

POTASSIUM HYDROXIDE SOLUTION, 2 N — ITEM 2188

2 mol/L

KOH F.W. 56.11

Concentration 2.00 ± 0.01 N

CAS # 1310-58-3 DOT 8/II NFPA # 3-0-1

60861 4 L

Specific Gravity 1.080

POTASSIUM HYDROXIDE SOLUTION, 1 N — ITEM 1184

1 mol/L

KOH F.W. 56.11

Concentration 1.000 ± 0.002 N

CAS # 1310-58-3 DOT 8/II NFPA # 3-0-1

60831 4 L
60832 4 X 4 L

Specific Gravity 1.045

POTASSIUM HYDROXIDE SOLUTION, 0.5 N — ITEM 1183

0.5 mol/L

KOH F.W. 56.11

Concentration 0.500 ± 0.001 N

CAS # 1310-58-3 DOT 8/III NFPA # 3-0-1

60821 4 L
60822 4 X 4 L

Specific Gravity 1.025

POTASSIUM HYDROXIDE SOLUTION, 0.1 N — ITEM 1182

0.1 mol/L

KOH F.W. 56.11

Concentration 0.1000 ± 0.0005 N

CAS # 1310-58-3 DOT 8/III NFPA # 3-0-1

60813 1 L
60814 6 X 1 L
60811 4 L
60812 4 X 4 L
60815 20 L

Specific Gravity 1.000

POTASSIUM HYDROXIDE SOLUTION, 0.5 N IN METHANOL — ITEM 1976

0.5 mol/L

KOH F.W. 56.11

Concentration 0.5000 ± 0.0050 N

CAS # 1310-58-3 DOT 3/8/II NFPA # 3-3-1

60791 4L

Specific Gravity 0.790

POTASSIUM HYDROXIDE SOLUTION, 0.1 N IN METHANOL — ITEM 1674

0.1 mol/L

KOH F.W. 56.11

Concentration 0.1000 ± 0.0020 N

CAS # 1310-58-3 DOT 3/II NFPA # 3-3-1

60851 4 L
60852 4 X 4 L

Specific Gravity 0.790

POTASSIUM HYDROXIDE SOLUTION, 0.05 N IN METHANOL — ITEM 2475

0.05 mol/L

KOH F.W. 56.11

Concentration 0.0500 ± 0.0010 N

CAS # 1310-58-3 DOT 3/II

83821 1 L
83822 4 L

Specific Gravity 0.790

POTASSIUM HYDROXIDE SOLUTION, 0.01 N IN METHANOL — ITEM 1984

0.01 mol/L

KOH F.W. 56.11

Exact Normality 0.0100 N ± 0.0004 N

CAS # 1310-58-3 DOT 3/II NFPA # 3-3-1

60856 4 L
60857 4 X 4 L

Specific Gravity 0.794

POTASSIUM HYDROXIDE SOLUTION 0.1 N, IN ISOPROPANOL — ITEM 1972

0.1 mol/L

KOH F.W. 56.11

Normality 0.1000 N ± 0.0005 N NIST Traceable

CAS # 1310-58-3 DOT 3/II

60881 4 L
60882 4 X 4 L

POTASSIUM HYDROXIDE, 0.02 N, IN ISOPROPANOL — ITEM 9055

0.02 mol/L

KOH F.W. 56.11

Concentration 0.0200 ± 0.0002 N

DOT 3/II

17711	1 L
17712	4 L

POTASSIUM HYDROXIDE SOLUTION 0.01 N, in ISOPROPANOL — ITEM 3572

0.01 mol/L

KOH F.W. 56.11

Concentration 0.0100 ± 0.0005 N

CAS # 1310-58-3 DOT 3/8/II

60781	1 L
60782	4 L

Specific Gravity 0.790

POTASSIUM IODATE, BIO-REFINED™ — ITEM 1927

KIO_3 F.W. 214.02

Assay 99.5% min.
Loss in drying @ 105 deg. C 0.05%
Bromide, Bromate, Chloride and Chlorate 0.02%
Sulfate (SO4) 0.001%
Absorbance cut off @ 276nm / (0.1M in H2O)
pH (1M in water @ 20 deg. C) 5.0-8.0
Insoluble matter 0.005%
Total Nitrogen (N) 0.005%
Iodide (I) 0.002%

CAS # 7758-05-6 DOT 5.1/II

60892	100 G
60891	500 G

POTASSIUM IODATE, REAGENT (ACS) — ITEM 79

KIO_3 F.W. 214.02

Assay 99.4%-100.4%
pH of 5% solution 5.0-8.0
Iodide 0.001%
Sulfate 0.005%
Iron 0.001%
Insoluble 0.005%
Chloride and bromide (Cl) 0.01%
Nitrogen compounds 0.005%
Heavy metals (as Pb) 0.0005%
Sodium 0.005%

CAS # 7758-05-6 DOT 5.1/II NFPA # 1-0-3

60901	100 G
60902	500 G
60903	2.5 KG
60904	10 KG
60905	50 KG

POTASSIUM IODATE, SOLUTION, 0.1 N (0.025 mol/L) TITRANT — ITEM 1648

0.025 mol/L. As titrant against copper.

KIO_3 F.W. 214.02

Concentration 0.1000 ± 0.0005 N Concentration 0.0250 ± 0.0002 mol/L

CAS # 7758-05-6 DOT NR

60941	500 ML
60942	4 L

Specific Gravity 1.000

POTASSIUM IODATE, SOLUTION, 0.1 N, (0.0167 mol/L) IODIMETRIC STANDARD — ITEM 1185

KIO_3 F.W. 214.02

Concentration 0.1000 ± 0.0002 N Concentration 0.0167 ± 0.0001 mol/L

CAS # 7758-05-6 DOT NR NFPA # 1-0-2

60911	500 ML
60912	4 L
60914	4 X 4 L
60913	20 L

Specific Gravity 1.000

POTASSIUM IODATE-IODIDE, SOLUTION, 0.5 N — ITEM 2269

0.083 mol/L KIO3

KIO_3/KI

Concentration (as KIO3) 0.500 ± 0.001 N

DOT NR NFPA # 1-3-0

60961	500 ML
60962	4 L

Specific Gravity 1.000

POTASSIUM IODATE-IODIDE, SOLUTION, 0.1 N — ITEM 1564

KIO3 0.0167 mol/L

KIO_3/KI

Concentration (KIO3) 0.100 ± 0.001 N

DOT NR NFPA # 1-0-2

60951	500 ML
60952	4 L
60953	20 L

Specific Gravity 1.000

POTASSIUM IODIDE, 99.995% ITEM 5068

KI F.W. 166.00

Assay (Metals Basis) 99.995%

CAS # 7681-11-0 DOT NR NFPA # 2-0-1

87641	5 G
87642	25 G
87643	100 G

POTASSIUM IODIDE, REAGENT (ACS) ITEM 654

KI F.W. 166.00

Assay 99.0% min
Loss on drying @ 150 C 0.2%
Chloride and Bromide (as Cl) 0.01%
Phosphate 0.001%
Heavy Metals (as Pb) 0.0005%
Barium 0.002%
Magnesium 0.001%
Insoluble 0.005%
pH of 5% solution @ 25 C 6.0-9.2
Iodate 0.0003%
Sulfate 0.005%
Iron 0.0003%
Calcium 0.002%
Sodium 0.005%

CAS # 7681-11-0 DOT NR NFPA # 2-0-1

61001	100 G
61002	500 G
61003	2.5 KG
61004	10 KG
61005	50 KG

POTASSIUM IODIDE, 99% ITEM 3644

KI F.W. 166.00

Assay 99% min.

CAS # 7681-11-0 DOT NR NFPA # 2-0-1

61041	100 G
61042	500 G
61043	2.5 KG

POTASSIUM IODIDE, SOLUTION, 20% ITEM 2274

KI F.W. 166.00

Concentration 19.0-21.0% (w/v)

CAS # 7681-11-0 DOT NR

61031	500 ML
61032	2.5 L

Specific Gravity 1.170

POTASSIUM IODIDE, SOLUTION 10% W/V ITEM 2191

KI F.W. 166.00

Concentration 9.5-10.5% APHA 10 max

CAS # 7681-11-0 DOT NR

61021	500 ML
61022	4 L

Specific Gravity 1.080

POTASSIUM IODIDE, SOLUTION, 5% W/V ITEM 2102

KI F.W. 166.00

Concentration 4.5-5.5%

CAS # 7681-11-0 DOT NR

25013	1 L

Specific Gravity 1.040

POTASSIUM MANGANATE ITEM A6144

K_2MnO_4 F.W. 197.13

Assay 94% min.

CAS # 10294-64-1 DOT 5.1/III

61073	5 G
61074	25 G
61075	100 G

POTASSIUM MERCURIC IODIDE

See Mercuric Potassium Iodide

POTASSIUM M-PERIODATE

See Potassium Periodate

POTASSIUM NITRATE, 99.999% ITEM A6174

KNO_3 F.W. 101.10

Assay (metals basis) 99.999%

CAS # 7757-79-1 DOT 5.1/III NFPA # 1-0-3

61213	20 G
61211	100 G
61212	500 G

POTASSIUM NITRATE, BIO-REFINED™ ITEM 1928

KNO_3 F.W. 101.10

Assay 99.5% min.
Loss on drying 0.1%
Ammonium (as NH4) 0.001%
Iodate 0.0005%
Phosphate 0.0005%
Absorbance cut off @ 328nm / (1M in H2O)
pH (1M in water @ 20 deg. C) 5.0-8.0
Insoluble matter 0.005%
Chloride 0.001%
Nitrite 0.001%
Sulfate 0.002%

Al 5 ppm	As 0.1 ppm	Ba 5 ppm
Bi 5 ppm	Ca 50 ppm	Cd 5 ppm
Co 5 ppm	Cr 5 ppm	Cu 5 ppm
Fe 2 ppm	Li 5 ppm	Mg 50 ppm
Mn 5 ppm	Mo 5 ppm	Na 50 ppm
Ni 5 ppm	Pb 5 ppm	Sr 5 ppm
Zn 5 ppm		

CAS # 7757-79-1 DOT 5.1/III

61221	500 G

POTASSIUM NITRATE, REAGENT (ACS) ITEM 655

KNO_3 F.W. 101.10

Assay 99.0% min
pH of 5% solution 4.5-8.5 @ 25C
Iodate 0.0005%
Phosphate 0.0005%
Calcium 0.005%
Heavy Metals (by ICP-OES) 0.0005%
Sodium 0.005%
Insoluble 0.005%
Chloride 0.002%
Nitrite 0.001%
Sulfate 0.003%
Magnesium 0.002%
Iron 0.0003%

CAS # 7757-79-1 DOT 5.1/III NFPA # 1-0-3

61201	500 G
61202	2.5 KG
61203	10 KG
61204	50 KG
61205	500 KG
61206	1000 KG

POTASSIUM NITRITE, REAGENT (ACS) ITEM 794

KNO_2 F.W. 85.10

Assay 96.0% min
Chloride 0.03%
Calcium 0.005%
Heavy Metals 0.001%
Sodium 0.5%
Insoluble 0.01%
Sulfate 0.01%
Magnesium 0.002%
Iron 0.001%

CAS # 7758-09-0 DOT 5.1/II

61255	100 G
61251	500 G
61252	2.5 KG
61253	10 KG

POTASSIUM OXALATE, MONOHYDRATE, REAGENT (ACS) ITEM 996

$K_2C_2O_4 \bullet H_2O$ F.W. 184.24

Assay 98.5-101.0%
Neutrality pass test
Chloride 0.002%
Ammonium 0.002%
Iron 0.001%
Substances darkened by hot H2SO4 pass test
Insoluble matter 0.01%
Sulfate 0.01%
Heavy metals 0.002%
Sodium 0.02%

CAS # 6487-48-5 DOT NR NFPA # 3-0-1

61270	100 G
61271	500 G
61272	2.5 KG
61273	10 KG
61274	50 KG

POTASSIUM PERCHLORATE, BIO-REFINED™ ITEM 1929

$KClO_4$ F.W. 138.55

Assay 99.5% min.
Insoluble matter 0.005%
Total Nitrogen (N) 0.005%
Absorbance (0.1M in H2O) @ 260 nm 0.010
pH (0.1M in water @ 20 deg. C) 5.0-6.5
Chloride (Cl) 0.05%
Sulfate (SO4) 0.001%
Absorbance (0.1M in H2O) @ 280 nm 0.010

Al 10 ppm
Bi 10 ppm
Co 5 ppm
Fe 5 ppm
Mn 5 ppm
Ni 5 ppm
Zn 5 ppm
As 0.1 ppm
Ca 10 ppm
Cr 5 ppm
Li 5 ppm
Mo 5 ppm
Pb 5 ppm
Ba 100 ppm
Cd 5 ppm
Cu 5 ppm
Mg 5 ppm
Na 100 ppm
Sr 5 ppm

CAS # 7778-74-7 DOT 5.1/II

61311	100 G

POTASSIUM PERCHLORATE, 100 MESH, REAGENT (ACS) ITEM 297

Finely divided for Parr Bomb work.

$KClO_4$ F.W. 138.55

Assay 99.0-100.5%
Chloride 0.003%
Heavy Metals 0.0005%
Iron 0.0005%
pH of 5% slurry in water 5.0-7.0
Insoluble 0.005%
Sulfate 0.001%
Calcium 0.005%
Sodium 0.02%
Mesh size 90% min. through 100 mesh

CAS # 7778-74-7 DOT 5.1/II NFPA # 1-0-3

61325	100 G
61321	500 G
61322	2.5 KG
61323	10 KG
61324	50 KG

POTASSIUM PERCHLORATE, REAGENT (ACS) ITEM 80

$KClO_4$ F.W. 138.55

Assay 99.0-100.5%
Chloride 0.003%
Heavy metals (as Pb) 0.0005%
Iron 0.0005%
pH of 5% solution 5.0-7.0
Insoluble 0.005%
Sulfate 0.001%
Calcium 0.005%
Sodium 0.02%

CAS # 7778-74-7 DOT 5.1/II NFPA # 1-0-3

61305	100 G
61301	500 G
61302	2.5 KG
61303	10 KG
61304	50 KG
61306	1,000 KG
61307	5,000 KG

POTASSIUM PERCHLORATE, COMMERCIAL — ITEM 373

This grade not classified for particle size.

$KClO_4$ F.W. 138.55

Assay 99.0% min
Chlorides 0.05%
pH of 5% solution 5.5-8.5 @ 25 C
Sodium 0.04%
Grit and water insoluble material 0.02%
Moisture 0.02% max
Chlorates 0.07%
Bromates 0.02%
Calcium and magnesium salts (as oxides) 0.20%
Iron 0.003%

CAS # 7778-74-7 DOT 5.1/II NFPA # 1-0-3

61332 10 KG
61333 50 KG
61334 100 KG
61335 1,000 KG
61336 5,000 KG

P

POTASSIUM PERIODATE, 99.99% — ITEM 5084

KIO_4 F.W. 230.00

Assay (metals basis) 99.99% min.

CAS # 7790-21-8 DOT 5.1/II NFPA # 1-0-3

87801 50 G
87802 250 G

POTASSIUM PERIODATE, REAGENT (ACS) — ITEM 81

Reagent for periodic oxidimetry.

KIO_4 F.W. 230.00

Assay (dried basis) 99.8-100.3%
Manganese 0.0001%
Other halogens(Cl) 0.01%

CAS # 7790-21-8 DOT 5.1/II NFPA # 1-0-3

61501 100 G
61502 500 G
61503 2.5 KG
61504 10 KG
61505 50 KG

POTASSIUM PERIODATE, COMMERCIAL — ITEM 593

KIO_4 F.W. 230.00

Assay 95.0% min.

CAS # 7790-21-8 DOT 5.1/II NFPA # 1-0-3

$00.00
61404 10 KG
61401 50 KG
61402 136 KG

POTASSIUM PERMANGANATE, BIO-REFINED™ — ITEM 1931

$KMnO_4$ F.W. 158.04

Assay 99.5% min.
Insoluble matter 0.1%
Total Nitrogen 0.003%
Absorbance(0.1M in H2O) No Transmittance
Ca 50 ppm
Cr 10 ppm
Mg 10 ppm
Pb 10 ppm
Cd 5 ppm
Cu 5 ppm
Na 50 ppm
Sr 10 ppm
pH (0.1M in water @ 20 deg. C) 7.0-8.5
Chlorate and chloride 0.002%
Sulfate 0.005%
Co 5 ppm
Fe 50 ppm
Ni 10 ppm
Zn 10 ppm

CAS # 7722-64-7 DOT 5.1/II

61581 500 G

POTASSIUM PERMANGANATE, LOW MERCURY, REAGENT (ACS) — ITEM 1693

Meets all ACS Reagent specifications

$KMnO_4$ F.W. 158.04

Assay 99.0% min
Chloride and chlorate (as Cl) 0.005%
Mercury 50 ppb
Insoluble 0.2%
Sulfate 0.02%

CAS # 7722-64-7 DOT 5.1/II

61590 100 G
61591 500 G
61592 2.5 KG

POTASSIUM PERMANGANATE, REAGENT (ACS) — ITEM 556

$KMnO_4$ F.W. 158.04

Assay 99.0% min
Chloride and chlorate (as Cl) 0.005%
Insoluble 0.2%
Sulfate 0.02%

CAS # 7722-64-7 DOT 5.1/II NFPA # 2-0-3

61601 500 G
61602 2.5 KG
61603 10 KG
61604 50 KG

POTASSIUM PERMANGANATE, SOLUTION, 1.0 N — ITEM 1861

0.2 mol/L

$KMnO_4$ F.W. 158.04

Concentration 1.000 ± 0.001 N

CAS # 7722-64-7 DOT NR NFPA # 2-0-1

61621 4 L
61622 4 X 4 L

Specific Gravity 1.020

POTASSIUM PERMANGANATE, SOLUTION, 0.1 N — ITEM 1186

Oxidimetric standard. Frequent restandardization recommended. 0.02 mol/L

$KMnO_4$ F.W. 158.04

Concentration 0.1000 ± 0.0005 N

CAS # 7722-64-7 DOT NR NFPA # 2-0-1

61611	4 L
61612	4 X 4 L
61613	20 L

Specific Gravity 1.000

POTASSIUM PERMANGANATE, SOLUTION, 0.0435 N — ITEM 2447

Oxidimetric standard. Frequent restandardization recommended. 0.0087 mol/L

$KMnO_4$ F.W. 158.04

Concentration 0.0435 ± 0.0005 N NIST Traceable

CAS # 7722-64-7 DOT NR NFPA # 2-0-1

61631	4 L

Specific Gravity 1.000

POTASSIUM PERMANGANATE, SOLUTION, 0.891 g/L — ITEM 9004

Colorimetric surrogate standard for 10.0 mg/L free chlorine in DPD colorimetric method

$KMnO_4$ F.W. 158.04

Concentration 0.891 ± 0.005 g/L

CAS # 7722-64-7 DOT NR NFPA # 2-0-1

17561	500 ML

Specific Gravity 1.000

POTASSIUM PEROXYDISULFATE

See Potassium Persulfate

POTASSIUM PERSULFATE, REAGENT (ACS) — ITEM 557

Potassium peroxydisulfate

$K_2S_2O_8$ F.W. 270.32

Assay 99.0% min.
Chlorine Compounds (as Cl) 0.001%
Iron 0.0005%
Insolubles 0.005%
Heavy metals (as Pb) 0.001%
Manganese 0.0002%

CAS # 7727-21-1 DOT 5.1/III NFPA # 1-0-3

61705	100 G
61701	500 G
61702	2.5 KG
61704	10 KG
61703	100 KG

POTASSIUM PHOSPHATE, DIBASIC, BIO-REFINED™ — ITEM 1925

K_2HPO_4 F.W. 174.18

Assay 99% min.
Insoluble matter 0.01%
Sulfate (SO4) 0.005%
Absorbance (1M in H2O) @ 280 nm 0.06
pH(1M in water at 20 C) 8.5-10.0
Chloride (Cl) 0.005%
Absorbance (1M in H2O) @ 260 nm 0.08

Al 5 ppm
Bi 5 ppm
Co 5 ppm
Fe 5 ppm
Mn 5 ppm
Ni 5 ppm
Zn 5 ppm
As 0.1 ppm
Ca 10 ppm
Cr 5 ppm
Li 5 ppm
Mo 5 ppm
Pb 5 ppm
Ba 500 ppm
Cd 5 ppm
Cu 5 ppm
Mg 5 ppm
Na 500 ppm
Sr 5 ppm

CAS # 7758-11-4 DOT NR

61912	100 G
61911	500 G

POTASSIUM PHOSPHATE, DIBASIC, REAGENT (ACS) — ITEM 731

K_2HPO_4 F.W. 174.18

Assay 98.0% min
Loss on drying @ 105 C 1.0%
Chloride 0.003%
Sulfate 0.005%
Iron 0.001%
Insoluble 0.01%
pH of 5% solution 8.5-9.6 @ 25 C
Nitrogen compounds (as N) 0.001%
Heavy Metals (by ICP-OES) 0.0005%
Sodium 0.05%

CAS # 7758-11-4 DOT NR NFPA # 0-0-0

61905	100 G
61901	500 G
61902	2.5 KG
61903	10 KG
61904	50 KG

POTASSIUM PHOSPHATE, DIBASIC, TRIHYDRATE — ITEM 3642

$K_2HPO_4 \bullet 3H_2O$ F.W. 228.23

Assay 99%

CAS # 16788-57-1 DOT NR

61991	100 G
61992	500 G
61993	2.5 KG

POTASSIUM PHOSPHATE, MONOBASIC, 99.99+% — ITEM 5104

KH_2PO_4 F.W. 136.09

Assay (metals basis) 99.99+%

CAS # 7778-77-0 DOT NR

88001	10 G
88002	50 G

POTASSIUM PHOSPHATE, MONOBASIC, BIO-REFINED™ ITEM 1924

KH_2PO_4 F.W. 136.09

Assay 99.5% min.
Insoluble matter 0.01%
Total Nitrogen (N) 0.001%
Absorbance (1M in H2O) @ 260 nm <0.046

pH (1 M in water @ 20 C) 4.1-4.5
Chloride (Cl) 0.0005%
Sulfate (SO4) 0.001%

Absorbance (1M in H2O) @ 280 nm <0.040

Al 5 ppm
Bi 5 ppm
Co 5 ppm
Fe 10 ppm
Mg 5 ppm
Ni 5 ppm
Zn 5 ppm

As 0.1 ppm
Ca 10 ppm
Cr 5 ppm
Li 5 ppm
Mo 5 ppm
Pb 5 ppm

Ba 5 ppm
Cd 5 ppm
Cu 5 ppm
Mn 5 ppm
Na 50 ppm
Sr 5 ppm

CAS # 7778-77-0 DOT NR

62012	100 G
62011	500 G

POTASSIUM PHOSPHATE, MONOBASIC, GRANULAR, REAGENT (ACS) ITEM 732

KH_2PO_4 F.W. 136.09

Assay 99.0% min
Insoluble matter 0.01%
Chloride 0.001%
Heavy Metals (by ICP-OES) 0.001%
Sodium 0.005%

pH of 5% solution 4.1-4.5 @ 25 C
Loss on drying @ 105 C 0.2% max
Sulfate 0.003%
Iron 0.002%

CAS # 7778-77-0 DOT NR NFPA # 0-0-0

62001	500 G
62002	2.5 KG
62003	10 KG
62004	50 KG

POTASSIUM PHOSPHATE, MONOBASIC, POWDER, REAGENT (ACS) ITEM 5276

KH_2PO_4 F.W. 136.09

Assay 99.0% min
Insoluble matter 0.01%
Chloride 0.001%
Heavy Metals (by ICP-OES) 0.001%
Sodium 0.005%

pH of 5% solution 4.1-4.5 @ 25 C
Loss on drying @ 105 C 0.2% max
Sulfate 0.003%
Iron 0.002%

CAS # 7778-77-0 DOT NR NFPA # 0-0-0

14611	100 G
14612	500 G
14613	2.5 KG

POTASSIUM PHOSPHATE, TRIBASIC, HEPTAHYDRATE, REAGENT (ACS) ITEM 1187

$K_3PO_4 \bullet 7H_2O$ F.W. 338.38

Assay 98% min.

Excess alkali (as KOH) 1%
Chloride 0.005%
Sulfate 0.005%
Iron 0.001%

Dibasic potassium phosphate (K2HPO4) 1%
Insoluble 0.01%
Sodium 0.1%
Heavy Metals (by ICP-OES) 0.002%

CAS # 22763-02-6 DOT NR NFPA # 2-0-1

62020	100 G
62021	500 G
62022	2.5 KG

POTASSIUM PHTHALATE, DIBASIC

See Dipotassium Phthalate, 98%

POTASSIUM PYROPHOSPHATE ITEM 3666

$K_4P_2O_7$ F.W. 330.35

Assay 95+% min.

Loss on Drying @ 105 C

CAS # 7320-34-5 DOT NR

62031	500 G
62032	2.5 KG

POTASSIUM PYROSULFATE ITEM 3667

$K_2S_2O_7$ F.W. 254.33

Assay 98.0%

CAS # 7790-62-7 DOT 8/II

62041	100 G
62042	500 G

POTASSIUM PYROSULFATE

See Potassium Hydrogen Sulfate

POTASSIUM SODIUM TARTRATE, REAGENT (ACS) ITEM 997

Rochelle Salt

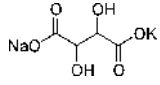
$KNaC_4H_4O_6 \bullet 4H_2O$ F.W. 282.23

Assay 99.0-102.0%
pH of 5% solution @ 25C 6.0-8.5
Phosphate 0.002%
Ammonium 0.002%
Heavy Metals (Pb) 0.0005%

Insoluble 0.005%
Chloride 0.001%
Sulfate 0.005%
Calcium 0.005%
Iron 0.001%

CAS # 6381-59-5 DOT NR NFPA # 0-1-0

62100	100 G
62101	500 G
62102	2.5 KG



POTASSIUM STANNATE, 99.9% ITEM 1483

$K_2SnO_3 \bullet 3H_2O$ F.W. 298.93

Assay (metals basis) 99.9% Tin content 37.0% min.

CAS # 12125-03-0 DOT NR

62121 100 G
62122 500 G

POTASSIUM STANNATE, HYDRATED ITEM 5249

Degree of hydration about 3-4.

$K_2SnO_3 \bullet 3H_2O$ F.W. 244.88 (ANHY)

Assay (as tin) 37.0% min.

CAS # 12125-03-0 DOT NR

14391 500 G
14392 2.5 KG

POTASSIUM SULFATE, 99.99% ITEM A6240

K_2SO_4 F.W. 174.26

Assay (metals basis) 99.99% min

CAS # 7778-80-5 DOT NR NFPA # 1-0-0

62212 5 G
62211 25 G

POTASSIUM SULFATE, BIO-REFINED™ ITEM 1932

K_2SO_4 F.W. 174.26

Assay 99% min. pH (0.5 M in water @ 20 deg. C) 6.0-7.5
Water <1.0% Insoluble matter 0.005%
Chloride (Cl) 0.0005% Total Nitrogen 0.0005%
Phosphate (PO4) 0.001% Absorbance (0.5M in H2O) @ 260 nm <0.005
Absorbance (0.5M in H20) @ 280 nm <0.005

Al 5 ppm	As 1 ppm	Ba 5 ppm
Bi 5 ppm	Ca 50 ppm	Cd 5 ppm
Co 5 ppm	Cr 5 ppm	Cu 5 ppm
Fe 5 ppm	Li 5 ppm	Mg 20 ppm
Mn 5 ppm	Mo 5 ppm	Na 50 ppm
Ni 5 ppm	Pb 5 ppm	Sr 50 ppm
Zn 5 ppm		

CAS # 7778-80-5 DOT NR

62191 500 G

POTASSIUM SULFATE, GRANULAR, REAGENT (ACS) ITEM 701

Nominally 10-80 mesh

K_2SO_4 F.W. 174.26

Assay 99.0%	Insoluble 0.01%
pH of 5% solution 5.5-8.5	Chloride 0.001%
Nitrogen compounds 0.0005%	Sodium 0.02%
Calcium 0.01%	Magnesium 0.005%
Heavy metals 0.0005%	Iron 0.0005%
Through 70 mesh screen - report	

CAS # 7778-80-5 DOT NR NFPA # 1-0-0

62201 500 G
62202 2.5 KG
62203 10 KG
62204 50 KG

POTASSIUM SULFATE, POWDER, REAGENT (ACS) ITEM 3748

K_2SO_4 F.W. 174.26

Assay 99.0%	Insoluble 0.01%
pH of 5% solution 5.5-8.5	Chloride 0.001%
Nitrogen compounds 0.0005%	Sodium 0.02%
Calcium 0.01%	Magnesium 0.005%
Heavy metals 0.0005%	Iron 0.0005%

CAS # 7778-80-5 DOT NR NFPA # 1-0-0

62181 500 G
62182 2.5 KG
62183 10 KG
62184 50 KG

POTASSIUM SULFIDE

See Sulfurated Potash

POTASSIUM TARTRATE, HEMIHYDRATE, REAGENT ITEM 1188

$K_2C_4H_4O_6 \bullet 1/2H_2O$ F.W. 235.28

pH of 5% solution @ 25 C 6.5-8.5	Insoluble matter 0.005%
Chloride 0.001%	Phosphate 0.001%
Sulfate 0.005%	Heavy Metals 0.0005%
Iron 0.0005%	

CAS # 6100-19-2 DOT NR NFPA # 1-0-0

62250 100 G
62251 500 G
62252 2.5 KG

P

POTASSIUM TETRABORATE, TETRAHYDRATE — ITEM 3677

$K_2B_4O_7 \bullet 4H_2O$ F.W. 305.50

Assay 99%

CAS # 12045-78-2 DOT NR NFPA # 2-0-0

62131	100 G
62132	500 G
62133	2.5 KG
62134	10 KG
62135	50 KG

POTASSIUM TETRACHLOROPLATINATE (II), 99.99% — ITEM 2631

K_2PtCl_4 F.W. 415.11

Pt content 46.5% min. Assay (metals basis) 99.99%

CAS # 10025-99-7 DOT 8/III

62231	1 G
62232	5 G

POTASSIUM TETRACHLOROPLATINATE (II) — ITEM 2426

Pt 46%

K_2PtCl_4 F.W. 415.11

Pt content 46% min.

CAS # 10025-99-7 DOT 8/III

83801	1 G
83802	5 G

POTASSIUM TETRAFLUOROBORATE, 98.5% — ITEM A6288

KBF_4 F.W. 125.90

Assay (metals basis) 98.5%

CAS # 14075-53-7 DOT 6.1/III

Please Inquire For Sizes

POTASSIUM THIOCYANATE, REAGENT (ACS) — ITEM 795

Clear to white crystal

KSCN F.W. 97.18

Assay 98.5% min.
Insoluble in water 0.005%
Sulfate 0.005%
Heavy metals 0.0005%
Sodium 0.005%
pH of 5% solution 5.3-8.7
Chloride 0.005%
Ammonium 0.003%
Iron 0.0002%
Iodine-consuming substances - Pass test

CAS # 333-20-0 DOT NR NFPA # 2-0-1

62305	100 G
62301	500 G
62302	2.5 KG
62303	10 KG

POTASSIUM THIOCYANATE, SOLUTION, 0.1 N — ITEM 9370

0.1 mol/L

KSCN F.W. 97.18

Concentration 0.100 ± 0.001 N

CAS # 333-20-0 DOT NR

25026	4 L

POTASSIUM THIOCYANATE, SOLUTION, 10% w/v — ITEM 9795

KSCN F.W. 97.18

Concentration 10 ± 1%

CAS # 333-20-0 DOT NR

20161	500 ML
20162	4 L

POTASSIUM THIOCYANATE, SOLUTION, 5% W/V — ITEM 2103

KSCN F.W. 97.18

Concentration 5 ± 0.5% (w/v)

CAS # 333-20-0 DOT NR

25021	500 ML

Specific Gravity 1.020

POTASSIUM TRIFLATE

See Potassium Trifluoromethanesulfonate, 98%

POTASSIUM TRIFLUOROMETHANESULFONATE, 98% — ITEM 3537

Not on the TSCA inventory

$K(CF_3SO_3)$ F.W. 188.17

Assay 98%

CAS # 2926-27-4 DOT NR

62221	5 G
62222	25 G

POTASSIUM TRIOXALATOCOBALTATE (III) — ITEM 289

Not on the TSCA inventory.

$K_3Co(C_2O_4)_3 \bullet 3H_2O$ F.W. 494.34

CAS # 14239-07-7 DOT NR

62321	25 G

POTASSIUM TUNGSTATE, 99.5% ITEM 1485

K_2WO_4 F.W. 326.04

Assay (metals basis) 99.5%

CAS # 7790-60-5 DOT NR

62342 25 G
62341 100 G

POTASSIUM TUNGSTATE ITEM A6327

K_2WO_4 F.W. 326.04

CAS # 7790-60-5 DOT NR

62331 25 G

PPDT

See 3-(4-Phenyl-2-Pyridyl)-5,6-Diphenyl-1,2,4-Triazine

PPDTS

See 3-(4-Phenyl-2-Pyridyl)-5,6-Diphenyl-1,2,4-Triazine Trisulfonic Acid, Trisodium Salt

p-PHENANTHROLINE

See 4,7-Phenanthroline

PPT

See 3-(4-Phenyl-2-Pyridyl)-5-Phenyl-1,2,4-Triazine (PPT)

PPTS

See 3-(4-Phenyl-2-Pyridyl)-5-Phenyl-1,2,4-Triazine Disulfonic Acid, Disodium Salt

PRASEODYMIUM, 10,000 ppm ICP STANDARD SOLUTION ITEM 1786

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III

22860 100 ML
22862 500 ML

Specific Gravity 1.030

PRASEODYMIUM, 1,000 ppm ICP STANDARD SOLUTION ITEM 1785

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III

22850 100 ML
22852 500 ML

Specific Gravity 1.030

PRASEODYMIUM ACETATE, 99.9% ITEM 2225

$Pr(C_2H_3O_2)_3 \bullet 3H_2O$ F.W. 372.09

CAS # 6192-12-7 DOT NR

26241 25 G
26242 100 G

PRASEODYMIUM ACETATE, 99% ITEM A6333

$Pr(C_2H_3O_2)_3 \bullet 3H_2O$ F.W. 372.09

Assay (metals basis) 99% min

CAS # 6192-12-7 DOT NR

62351 25 G

PRASEODYMIUM BROMIDE, 99.999% ITEM A6342

$PrBr_3 \bullet 6H_2O$ F.W. 488.72

Assay (metals basis) 99.999% min

CAS # 13536-53-3 DOT NR

62361 5 G

PRASEODYMIUM CARBONATE, 99.9% ITEM 2226

$Pr_2(CO_3)_3 \bullet 8H_2O$ F.W. 605.96

CAS # 14948-62-0 DOT NR

26251 25 G

PRASEODYMIUM CHLORIDE, 99.9%, ANHYDROUS ITEM 5157

$PrCl_3$ F.W. 247.27

Assay (metals basis) 99.9% Praseodymium content 55.0-58.0%

CAS # 10361-79-2 DOT NR

12751 5 G
12752 25 G

PRASEODYMIUM CHLORIDE, 99.999%, HEPTAHYDRATE ITEM A6351

$PrCl_3 \bullet 7H_2O$ F.W. 373.38

Assay (metals basis) 99.999% Praseodymium content 36.0-39.5%

CAS # 10025-90-8 DOT NR

62391 5 G

P

PRASEODYMIUM CHLORIDE, 99.99%, HEPTAHYDRATE **ITEM 2229**

$PrCl_3 \bullet 7H_2O$ F.W. 373.38

Assay (metals basis) 99.99% Praseodymium content 36.0-39.5%

CAS # 10025-90-8 DOT NR

26282 5 G
26281 25 G

PRASEODYMIUM CHLORIDE, 99.9%, HEPTAHYDRATE **ITEM A6348**

$PrCl_3 \bullet 7H_2O$ F.W. 373.38

Assay (metals basis) 99.9% min Praseodymium content 36.0-39.5%

CAS # 10025-90-8 DOT NR

62381 50 G

PRASEODYMIUM FLUORIDE, 99% **ITEM A6357**

$PrF_3 \bullet xH_2O$ F.W. 197.90 + XH2O

CAS # 13709-46-1 DOT NR

62421 50 G

PRASEODYMIUM NITRATE, 99.99% **ITEM 2230**

$Pr(NO_3)_3 \bullet 6H_2O$ F.W. 435.02

Assay (metals basis) 99.99% Praseodymium content 31.5-33.4%

CAS # 10361-80-5 DOT 5.1/III

26292 5 G
26291 25 G

PRASEODYMIUM NITRATE, 99.9% **ITEM A6378**

$Pr(NO_3)_3 \bullet 6H_2O$ F.W. 435.02

Assay (metals basis) 99.9% min Praseodymium content 31.5-33.4%

CAS # 10361-80-5 DOT 5.1/III

62442 10 G
62441 50 G

PRASEODYMIUM OXALATE, 99.999% **ITEM A6393**

$Pr_2(C_2O_4)_3 \bullet 10H_2O$ F.W. 726.04

CAS # 24992-60-7 DOT NR

62471 5 G

PRASEODYMIUM OXALATE, 99.99% **ITEM 2231**

$Pr_2(C_2O_4)_3 \bullet 10H_2O$ F.W. 726.04

CAS # 24992-60-7 DOT NR

26302 5 G
26301 25 G

PRASEODYMIUM OXALATE, 99.9% **ITEM 2227**

$Pr_2(C_2O_4)_3 \bullet 10H_2O$ F.W. 726.04

Assay (Metals Basis) 99.9% min

CAS # 24992-60-7 DOT NR

26261 25 G

PRASEODYMIUM OXALATE, 99% **ITEM A6387**

$Pr_2(C_2O_4)_3 \bullet 10H_2O$ F.W. 726.04

Assay (metals basis) 99% min

CAS # 24992-60-7 DOT NR

62461 50 G

PRASEODYMIUM OXIDE, 99.999% **ITEM A6402**

Pr_6O_{11} F.W. 1021.44

CAS # 12037-29-5 DOT NR

62491 5 G

PRASEODYMIUM OXIDE, 99.99% **ITEM 2232**

Pr_6O_{11} F.W. 1021.44

Assay (metals basis) 99.99% min.

CAS # 12037-29-5 DOT NR

26312 5 G
26311 25 G

PRASEODYMIUM OXIDE, 99.9% **ITEM 579**

Pr_6O_{11} F.W. 1021.44

Assay (metals basis) 99.9% min

CAS # 12037-29-5 DOT NR

62401 25 G
62402 100 G

PRASEODYMIUM OXIDE, 99% **ITEM A6396**

Pr_6O_{11} F.W. 1021.44

CAS # 12037-29-5 DOT NR

62481 50 G

PRASEODYMIUM PERCHLORATE, HYDRATED, 50% SOLUTION, REAGENT — ITEM 529

$Pr(ClO_4)_3 \bullet 6H_2O$ F.W. 547.36

Praseodymium content 12.4-13.4% Insoluble 0.01%
Chloride 0.01%

CAS # 13498-07-2 DOT NR

62501 20 G
62502 50 G

PRASEODYMIUM SULFATE, 99.999% — ITEM A6417

$Pr_2(SO_4)_3 \bullet 8H_2O$ F.W. 714.14

CAS # 10277-44-8 DOT NR

62541 10 G

PRASEODYMIUM SULFATE, 99.99% — ITEM 2233

$Pr_2(SO_4)_3 \bullet 8H_2O$ F.W. 714.14

CAS # 10277-44-8 DOT NR

26322 5 G
26321 25 G

PRASEODYMIUM SULFATE, 99.9% — ITEM 2228

$Pr_2(SO_4)_3 \bullet 8H_2O$ F.W. 714.14

CAS # 10277-44-8 DOT NR

26271 25 G

PRASEODYMIUM TRIFLATE

See Praseodymium Trifluoromethanesulfonate, 98%

PRASEODYMIUM TRIFLUOROMETHANESULFONATE, 98% — ITEM 3538

Not on the TSCA inventory

$Pr(CF_3SO_3)_3$ F.W. 588.11

Assay 98%

CAS # 52093-27-3

62581 5 G
62582 25 G

PRIORITY POLLUTANT SET, ICP STANDARDS 13 ELEMENTS — ITEM 1847

13 X 100 ML EACH OF THESE SINGLE ELEMENT STDS AG, AS, BE, CD, CR, CU, HG,NI, PB, SB, SE, TI, ZN

NIST Traceable

DOT NR

23551 13 X 100ML

PROPANEDIOIC ACID

See Malonic Acid, 99%

1,3-PROPANEDIOL, 98% — ITEM 3292

$HO(CH_2)_3OH$ F.W. 76.10

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 504-63-2 DOT NR

82861 250 G
82862 1 KG
82863 19 KG

Specific Gravity 1.053

1,2-PROPANEDIOL

See Propyleneglycol, Reagent (ACS)

PROPANEDIOL CYCLIC CARBONATE

See Propylene Carbonate, 99%

PROPANENITRILE

See Propionitrile, 99%

1,2,3-PROPANETRIOL

See Glycerin

PROPANOIC ACID

See Propionic Acid

1-PROPANOL

See n-Propyl Alcohol

2-PROPANOL

See Isopropyl Alcohol

PROPARGYL ACRYLATE, 98% — ITEM 3294

Lachrymator. Requires refrigeration. Stabilized with Hydroquinone

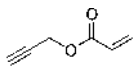
$CH_2{=}CHCOOCH_2C{\equiv}CH$ F.W. 110.11

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Stabilizer (Hydroquinone), Confirm presence Color - Colorless to faint yellow
Clarity / Form - Clear, liquid

CAS # 10477-47-1 DOT 3/6.1/III

82880 5 G
82881 25 G
82882 100 G

Specific Gravity 1.000



P

PROPARGYL ALCOHOL, 99% ITEM 3295

2-Propyn-1-ol. Refrigerate.

$HC{\equiv}CCH_2OH$ F.W. 56.04

Assay (GC-FID), 98.5% min
H2O (KF), 0.5% max
Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 107-19-7 DOT 6.1/3/II NFPA # 3-3-0

82891	250 G
82892	1 KG
82893	17 KG
82894	50 KG

Specific Gravity 0.963

PROPARGYL ALCOHOL ETHYL VINYL ETHER ADDUCT

See (±)-Acetaldehyde Ethyl Propargyl Acetal

PROPARGYL ALCOHOL TETRAHYDRO-2H-PYRAN ETHER, 98% ITEM 3399

Refrigeration required. Not on the TSCA inventory.

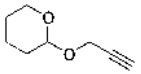
$(C_5H_9O)OCH_2C{\equiv}CH$ F.W. 140.18

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 6089-04-9 DOT 3/III

84241	25 G
84242	100 G
84243	1 KG

Specific Gravity 0.997



PROPARGYLALDEHYDE DIETHYL ACETAL, 98% ITEM 3296

Requires refrigeration; Not on the TSCA Inventory. 3,3-Diethoxy-1-Propyne. Stabilized with Potassium carbonate. Any haze in liquid due to Potassium carbonate.

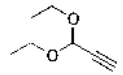
$HC{\equiv}CCH(OCH_2CH_3)_2$ F.W. 128.17

Assay (GC-FID), 97.5% min
Stabilizer (Potassium carbonate), Confirm presence
Clarity / Form - Slightly hazy liquid
Identification by GC/MS - Conforms
Color - Colorless to yellow

CAS # 10160-87-9 DOT 3/III

82901	10 G
82902	50 G
82903	250 G
82904	1 KG

Specific Gravity 0.894



PROPARGYLALDEHYDE DIETHYL ACETAL, 95% ITEM 5354

Requires refrigeration; Not on the TSCA Inventory.

$HC{\equiv}CCH(OCH_2CH_3)_2$ F.W. 128.17

Assay (GC-FID), 94.0% min
Stabilizer (Potassium carbonate), Confirm presence
Clarity / Form - Slight hazy liquid
Identification by GC/MS - Conforms
Color - Colorless to yellow

CAS # 10160-87-9 DOT 3/III

14411	10 G
14412	50 G
14413	250 G

Specific Gravity 0.894

PROPARGYLAMINE, 99% ITEM 3959

Refrigeration recommended.

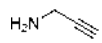
$HC{\equiv}CCH_2NH_2$ F.W. 55.08

Assay (GC-FID), 98.5% min
H2O (KF), 5.0% max
Clarity / Form - Clear, liquid
Identification by GC/MS - Conforms
Color - Colorless to amber

CAS # 2450-71-7 DOT 3/6.1/8/II NFPA # 3-3-0

62611	5 G
62612	25 G
62613	500 G
62616	2 KG
62614	17 KG
62615	50 KG
62617	170 KG

Specific Gravity 0.860



PROPARGYL ETHER

See Dipropargyl Ether, 98%

N-PROPARGYLOXYPHTHALIMIDE, 98% ITEM 3299

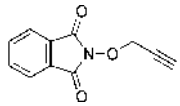
Not on the TSCA inventory.

$[C_6H_4(CO)_2N]OCH_2C{\equiv}CH$ F.W. 201.18

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms
Appearance - White to tan solid

CAS # 4616-63-1 DOT 9/III

82931 10 G
82932 50 G



PROPARGYLOXYTRIMETHYLSILANE

See Trimethylsilyloxypropyne, 98%

N-PROPARGYLPHTHALIMIDE, 98% ITEM 3300

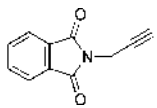
Not on the TSCA inventory.

$[C_6H_4(CO)_2N]CH_2C{\equiv}CH$ F.W. 185.18

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms
H2O (KF), 0.5% max
Appearance - White to tan solid/crystal

CAS # 7223-50-9 DOT 9/III

82941 5 G
82942 25 G
82943 100 G
82944 500 G



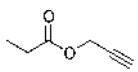
PROPARGYL PROPIONATE, 98% ITEM 3301

$HC{\equiv}CCH_2OCOCH_2CH_3$ F.W. 112.12

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms
Color - Colorless to faint yellow
Clarity / Form - Clear, liquid

CAS # 1932-92-9 DOT 3/6/III

82951 25 G
82952 100 G



PROPARGYL p-TOLUENESULFONATE, 50%, in XYLENES ITEM 3302

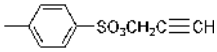
Requires refrigeration. Not on the TSCA inventory.

$HC{\equiv}CCH_2OSO_2C_6H_4CH_3$ F.W. 210.25

Concentration 49-51%

CAS # 16192-07-7 DOT 8/II

Please Inquire For Sizes



PROPARGYL TRIMETHYLSILANE

See 3-Trimethylsilyl-1-Propyne, 97%

cis-1-PROPENYLBENZENE, 95% ITEM 3303

Not on the TSCA inventory.

$C_6H_5CH{=}CHCH_3$ F.W. 118.17

Assay (GC-FID), 94.0% min
Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 766-90-5 DOT 3/6.1/III

82971 10 G
82972 50 G

Specific Gravity 0.914

PROPIOLALDEHYDE DIETHYLACETAL

See Propargylaldehyde Diethyl Acetal

PROPIOLIC ACID, SODIUM SALT

See Sodium Propynoate

PROPIONIC ACID, REAGENT (ACS) ITEM 2411

Propanoic Acid

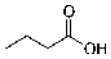
$C_3H_6O_2$ F.W. 74.08

Assay 99.5% min
Color (APHA) 20
Residue after evaporation 0.01%
Readily oxidizable substances (as HCOOH) 0.10%
Heavy Metals (as Pb) 0.001%
Carbonyl compounds 0.002%
Water 0.15%

CAS # 79-09-4 DOT 8/3/II NFPA # 3-2-0

88281 100 ML
88282 500 ML

Specific Gravity 0.998



P

PROPIONITRILE, 99% — ITEM 2940

CH_3CH_2CN F.W. 55.08

Assay (GC-FID), 98.5% min
Appearance - Clear, colorless liquid

CAS # 107-12-0 DOT 3/6.1/II NFPA # 3-3-1

84921	50 ML
84922	250 ML
84923	4 L
84924	4 X 4 L
84925	60 L

Specific Gravity 0.772

n-PROPYL ALCOHOL, REAGENT (ACS) — ITEM 1593

1-Propanol

C_3H_8O F.W. 60.10

Assay (GC) 99.5% min.
Color (APHA) 10 max
Water 0.2%
Ethyl alcohol 0.01%
Isopropyl alcohol 0.05%
Water soluble Pass test
Residue after evaporation 0.001%
Titrable acid 0.0004 meq/g
Methyl alcohol 0.01%
Carbonyl compounds 0.03%

CAS # 71-23-8 DOT 3/II NFPA # 1-3-0

62601	500 ML
62602	4 L
62603	4 X 4 L

Specific Gravity 0.804

PROPYL BROMIDE

See 1-Bromopropane, 99%

PROPYLENE CARBONATE, 99% — ITEM 505

Propanediol Cyclic Carbonate. Iron and copper free

$C_4H_6O_3$ F.W. 102.09

Assay (GC-FID), 98.5% min
Iron - Pass Test
Copper - Pass Test

CAS # 108-32-7 DOT NR NFPA # 1-1-0

62701	500 ML
62702	4 L

Specific Gravity 1.189

PROPYLENEDIAMINE

See 1,3-Diaminopropane, 99%

PROPYLENEGLYCOL METHYL ETHER

See 1-Methoxy-2-Propanol, 99%

PROPYLENEGLYCOL, REAGENT (ACS) — ITEM 1975

1,2-Propanediol

$CH_3CH(OH)CH_2OH$ F.W. 76.10

Assay (GLC) 99.5% min
Residue after ignition 0.005%
Water 0.2%
Color (APHA) 10 max.
Chloride 0.0001%
Titrable acid 0.0005 meq/g

CAS # 57-55-6 DOT NR NFPA # 0-1-0

62724	500 ML
62721	4 L
62722	4 X 4 L
62723	19 L

Specific Gravity 1.036

PROPYLENE OXIDE, 99% — ITEM 5312

1,2-Epoxypropane

C_3H_6O F.W. 58.08

Assay (GC-FID), 98.5% min
Identification by GC/MS - Conforms

CAS # 75-56-9 DOT 3/I

16841	500 ML

Specific Gravity 0.830

PROPYL IODIDE

See 1-Iodopropane

PROPYNE, 99% — ITEM 3305

Cylinder deposit. Cylinder pressure 60 psi @ 21 C. Stabilized with BHT & Hydroquinone.

$CH_3C{\equiv}CH$ F.W. 40.07

Assay (GC-FID), 98.5% min
Stabilized with BHT & Hydroquinone - Confirm

CAS # 74-99-7 DOT 2.1

82991	100 G
82992	500 G
82996	2.7 KG
82994	10 KG

Specific Gravity 0.630

2-PROPYN-1-OL

See Propargyl Alcohol, 99%

2-PROPYNYLAMINE

See Propargylamine

2-(2-PROPYNYLOXY)TETRAHYDRO-2H-PYRAN

See Propargyl Alcohol Tetrahydro-2H-Pyran Ether

2-PROPYNYL PROPIONATE

See Propargyl Propionate, 98%

(N-2-PROPYNYL)-2-PROPYN-1-AMINE

See Dipropargylamine

p-TOLYLACETYLENE

See 4-Ethynyltoluene, 97%

PTTA

See Di-p-Toluoyl-L-Tartaric Acid

PYRIDINE, REAGENT (ACS) ITEM 702

C_5H_5N F.W. 79.10

Assay (GC) 99.0%
Residue after evaporation 0.002%
Chloride 0.001%
Ammonia 0.002%
Reducing substances - Pass Test
Solubility in water - Pass Test
Water 0.1%
Sulfate 0.001%
Copper 5 ppm

CAS # 110-86-1 DOT 3/II NFPA # 2-3-0

62850	100 ML
62851	500 ML
62853	6 X 500 ML
62852	4 L
62854	4 X 4 L

Specific Gravity 0.982

1-(2-PYRIDYLAZO)-2-NAPHTHOL, REAGENT (ACS) ITEM 324

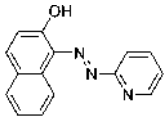
PAN; PAN-2. Indicator for complexometric titrations. Cheng and Bray, Anal. Chem., 27,782 (1955). Reagent for the colorimetric determination of vanadium. Staten and Huffman, Anal.Chem.,31, 2003 (1959).

$C_5H_4N\text{-}N{=}N\text{-}C_{10}H_6OH$ F.W. 249.26

Suitability as complexometric indicator Pass Test

CAS # 85-85-8 DOT NR

63002	5 G
63003	10 G



1-(2-PYRIDYLAZO)-2-NAPHTHOL SOLUTION, 0.1%, In ETHYL ALCOHOL ITEM 2093

Indicator solution

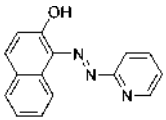
$C_5H_4N\text{-}N{=}N\text{-}C_{10}H_6OH$ F.W. 249.26

Clarity of solution - Pass Test
Suitability as an indicator - Pass Test

CAS # 85-85-8 DOT 3/II

24921 500 ML

Specific Gravity 0.800



3-(2-PYRIDYL)-5,6-DIPHENYL-1,2,4-TRIAZINE (PDT) ITEM 516

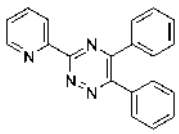
Reagent for the simultaneous spectrophotometric determination of iron and copper. Schilt and Taylor, Anal. Chem., 42,220 (1970)

$C_{20}H_{14}N_4$ F.W. 310.34

Suitability as an indicator Pass Test
Melting Point 189-190 C

CAS # 1046-56-6 DOT NR

63301	1 G
63302	5 G
63303	10 G



P

3-(2-PYRIDYL)-5,6-DIPHENYL-1,2,4-TRIAZINE DISULFONATED, MONOSODIUM SALT ITEM 2582

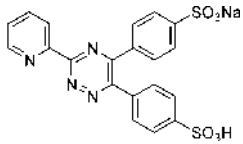
Reagent for the spectrophotometric determination of iron and copper. Approximately 7% water.

$C_{20}H_{13}N_4S_2O_6Na \bullet H_2O$ F.W. 510.46

Sensitivity to Iron - Pass Test
H2O (KF), Report %
Sensitivity to Copper - Pass Test
Assay 98.0% min

CAS # 69898-45-9 DOT NR

63341 5 G
63342 25 G



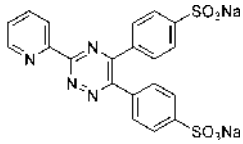
3-(2-PYRIDYL)-5,6-DIPHENYL-1,2,4-TRIAZINE SULFONATED, DISODIUM SALT ITEM 569

Reagent for the spectrophotometric determination of iron and copper.

$C_{20}H_{12}N_4(SO_3Na)_2$ F.W. 514.46

CAS # 28048-33-1 DOT NR

63352 5 G
63353 25 G
63354 100 G



PYROCATECHOL

See Catechol, 99%

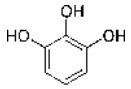
PYROGALLOL, REAGENT (ACS) ITEM 998

$C_6H_3(OH)_3$ F.W. 126.11

Melting point 131.0-135.0 C
Chloride 0.001%
Heavy Metals (Pb) 0.0005%
Residue after ignition 0.005%
Sulfate 0.005%
Iron 0.001%

CAS # 87-66-1 DOT NR NFPA # 2-1-0

63371 100 G
63372 500 G
63374 2.5 KG



PYRROLIDINE, 99% ITEM 2607

C_4H_9N F.W. 71.12

Assay (GC-FID), 98.5% min

CAS # 123-75-1 DOT 3/8/II

63311 100 ML
63312 500 ML

Specific Gravity 0.852

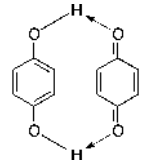
QUINHYDRONE, 97.0% ITEM 1877

$C_{12}H_{11}O_4$ F.W. 218.21

Assay (HPLC - Area % at 223 nm), 97.0% min
Color - Dark green
p-Benzoquinone (Titration), 48.5% - 51.5%
Form - Lustrous crystal

CAS # 106-34-3 DOT 6.1/III

63321 25 G
63322 100 G
63323 500 G



QUINOLINE, 95% ITEM 2760

C_9H_7N F.W. 129.16

Assay (GC-FID), 94.0% min
Appearance - Clear, yellow liquid

CAS # 91-22-5 DOT 6.1/III NFPA # 2-1-0

63291 100 G
63292 500 G
63293 2.5 KG

Specific Gravity 1.093

8-QUINOLINOL

See 8-Hydroxyquinoline, 99%

8-QUINOLINOL SULFATE

See 8-Hydroxyquinoline Sulfate

RANEY COPPER

See Copper Aluminum Catalyst

REAGENT ALCOHOL

See Alcohol Reagent, Anhydrous

RED LEAD

See Lead Oxide (Red)

REFLUX HEAD FOR 250 ML FLASK — ITEM 181

See Laboratory Apparatus section in front of catalog for more information.

DOT NR

78401 EACH

REFLUX HEAD FOR 500 ML FLASK — ITEM 269

See Laboratory Apparatus section in front of catalog for more information.

DOT NR

78411 EACH

REINECKE SALT, REAGENT (ACS) — ITEM 1013

Ammonium Tetra(thiocyanato)diamminechromate (III), Monohydrate

$NH_4Cr(SCN)_4(NH_3)_2 \bullet H_2O$ F.W. 354.42

Assay 93.0% min. Insoluble in HCl 0.05%
Sensitivity - Pass test

CAS # 13573-16-5 DOT NR NFPA # 2-0-0

63441 25 G
63442 100 G

RESAZURIN, SODIUM SALT — ITEM 1108

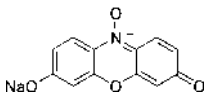
Certifiable

$C_{12}H_6NO_4Na$ F.W. 251.18

Suitability as indicator Pass test

CAS # 62758-13-8 DOT NR NFPA # 2-1-1

63436 5 G
63431 25 G
63432 100 G



RESORCINOL, REAGENT (ACS) — ITEM 1077

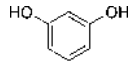
1,3-Benzenediol

$C_6H_4(OH)_2$ F.W. 110.11

Assay 99.0-100.5% Melting Point 109.0 - 112.0 C
Insoluble 0.005% Residue on ignition 0.01%
Titrable acid 0.004 meq/g

CAS # 108-46-3 DOT 6.1/III NFPA # 2-2-1

63450 25 G
63451 100 G
63452 500 G



RHENIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1788

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III

22880 100 ML
22882 500 ML

Specific Gravity 1.030

RHENIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1787

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III

22870 100 ML
22872 500 ML

Specific Gravity 1.030

RHODAMINE B — ITEM 797

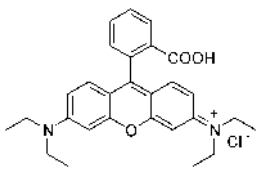
For determination of antimony. CI 45170

$C_{28}H_{31}N_2O_3Cl$ F.W. 479.02

Suitability as indicator Pass Test

CAS # 81-88-9 DOT NR NFPA # 2-1-0

63461 25 G
63462 100 G



R

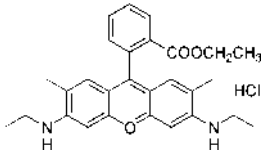
RHODAMINE 6G — ITEM 798

CI 45160

$C_{28}H_{31}N_2O_3Cl$ F.W. 479.02

CAS # 989-38-8 DOT NR NFPA # 2-1-1

63472 100 G



RHODANINE — ITEM 249

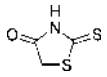
Reagent for the detection of silver.

$C_3H_3NOS_2$ F.W. 133.19

M.p. 168-170 C

CAS # 141-84-4 DOT NR

63501 25 G
63502 100 G



RHODIUM, 99.99+% — ITEM 5066

Rh F.W. 102.91

Assay (metals basis) 99.99+% min

CAS # 7440-16-6 DOT 4.1/III

87621 100 MG
87622 1 G

RHODIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1790

Concentration 10,000 ± 100 ug/ml Matrix: 20% Hydrochloric acid
NIST Traceable

DOT 8/II

22900 100 ML
22902 500 ML

Specific Gravity 1.040

RHODIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1789

Concentration 1,000 ± 10 ug/ml Matrix: 20% Hydrochloric acid
NIST Traceable

DOT 8/II

22890 100 ML
22892 500 ML

Specific Gravity 1.040

RHODIUM CATALYST

See Royer Rhodium Catalyst Beads

RHODIUM CHLORIDE, REAGENT — ITEM 1014

$RhCl_3 \bullet xH_2O$ F.W. 209.26 (+ XH2O)

Assay (Rh) 40% min.

CAS # 10049-07-7 DOT NR

63571 1 G
63572 5 G

ROCHELLE SALT

See Potassium Sodium Tartrate

ROYER® ANION EXCHANGE RESIN, PEI-40 — ITEM 1000

Polyethylenimine immobilized on silica beads. 20-40 mesh. See Royer product information section.

F.W. 60.09

Mesh size 20-40

DOT NR

99001 100 ML
99002 500 ML

ROYER® ANION EXCHANGE RESIN, PEI-100 — ITEM 1001

Polyethylenimine immobilized on silica gel. 40-200 mesh. See Royer product information section.

F.W. 60.09

Mesh size 40-200

DOT NR

99021 100 ML
99022 500 ML

ROYER® ANION EXCHANGE RESIN, BZL-PEI-40 — ITEM 1002

Polyethylenimine immobilized on silica beads. Benzylated 20-40 mesh. See Royer product information section.

Mesh size 20-40 mesh

DOT NR

99101 100 ML
99102 500 ML

ROYER® ANION EXCHANGE RESIN, BZL-PEI-100 ITEM 1003

Polyethylenimine immobilized on silica gel. Benzylated 40-200 mesh. See Royer product information section.

Mesh size 40-200 mesh

DOT NR

99121	100 ML
99122	500 ML

ROYER® ANION EXCHANGE RESIN, PEI-X-100 ITEM 1066

Polyethylenimine immobilized on silica gel. XAMA Cross-linked. 40-200 mesh. See Royer product information section.

Mesh size 40-200 mesh

DOT NR

99191	100 ML
99192	500 ML

ROYER® PALLADIUM CATALYST BEADS, 1% Pd on Polyethylenimine/SiO2 ITEM 1004

Catalyst for hydrogenation 20-40 mesh. See Royer product information section.

Mesh size 20-40 mesh

CAS # 7440-05-3 DOT NR NFPA # 2-0-1

99201	10 G
99202	25 G
99203	100 G

ROYER® PALLADIUM CATALYST POWDER, 3% Pd on Polyethylenimine/SiO2 ITEM 1068

Catalyst for hydrogenation 40-200 mesh. See Royer product information section.

Mesh size 40-200 mesh

CAS # 7440-05-3 DOT NR

99231	10 G
99232	25 G
99233	100 G

ROYER® PALLADIUM CATALYST POWDER, 1% Pd on Polyethylenimine/SiO2 ITEM 1005

Catalyst for hydrogenation 40-200 mesh. See Royer product information section.

Mesh size 40-200 mesh

CAS # 7440-05-3 DOT NR

99221	10 G
99222	25 G
99223	100 G

ROYER® PLATINUM CATALYST BEADS, 1% Pt on Polyethylenimine/SiO2 ITEM 1006

Catalyst for reductions 20-40 mesh. See Royer product information section.

Mesh size 20-40 mesh

CAS # 7440-06-4 DOT NR

99301	10 G
99302	25 G

ROYER® PLATINUM CATALYST POWDER, 1% Pt on Polyethylenimine/SiO2 ITEM 1007

Catalyst for reductions 40-200 mesh. See Royer product information section.

Mesh size 40-200 mesh

CAS # 7440-06-4 DOT NR

99321	10 G
99322	25 G

ROYER® RHODIUM CATALYST BEADS, 1% Rh on Polyethylenimine/SiO2 ITEM 1008

Catalyst 20-40 mesh. See Royer product information section.

Mesh size 20-40 mesh

CAS # 7440-16-6 DOT NR

99401	10 G
99402	25 G

ROYER® RHODIUM CATALYST POWDER, 1% Rh on Polyethylenimine/SiO2 ITEM 1009

Catalyst 40-200 mesh. See Royer product information section.

Mesh size 40-200 mesh

CAS # 7440-16-6 DOT NR

99421	10 G
99422	25 G

ROYER® RUTHENIUM CATALYST BEADS, 1% Ru on Polyethylenimine/SiO2 ITEM 1010

Catalyst 20-40 mesh. See Royer product information section.

Mesh size 20-40 mesh

CAS # 7440-18-8 DOT NR

99501	10 G
99502	25 G

ROYER® RUTHENIUM CATALYST POWDER, 1% Ru on Polyethylenimine/SiO2 — ITEM 1011

Catalyst 40-200 mesh. See Royer product information section.

Mesh size 40-200 mesh

CAS # 7440-18-8 DOT NR

99521	10 G
99522	25 G

RUBIDIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1792

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III

22920	100 ML
22922	500 ML

Specific Gravity 1.030

RUBIDIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1791

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III

22910	100 ML

Specific Gravity 1.030

RUBIDIUM BROMIDE, 99.9% — ITEM A6588

RbBr F.W. 165.37

CAS # 7789-39-1 DOT NR

63652	5 G
63651	25 G

RUBIDIUM CARBONATE, 99.9% — ITEM A6591

Rb_2CO_3 F.W. 230.95

Assay (Metals Basis) 99.9%

CAS # 584-09-8 DOT NR

63682	5 G
63681	25 G

RUBIDIUM CHLORIDE, 99.98% — ITEM 5096

RbCl F.W. 120.92

Assay (metals basis) 99.98% min

CAS # 7791-11-9 DOT NR

87921	1 G
87922	5 G
87923	25 G

RUBIDIUM CHLORIDE, 99.9% — ITEM 1486

RbCl F.W. 120.92

Assay (metals basis) 99.9% min. Assay (as RbCl) 99% min.

CAS # 7791-11-9 DOT NR

63711	25 G

RUBIDIUM CHLORIDE, REAGENT — ITEM 1015

RbCl F.W. 120.92

Assay 99%
Sulfate 0.005%
Iron 0.001%
Insoluble 0.005%
Heavy metals (as Pb) 0.001%
pH of 5% solution 5.0-8.0 @ 25 C

CAS # 7791-11-9 DOT NR

63701	25 G
63702	100 G
63706	100 KG
63707	500 KG

RUBIDIUM DICHROMATE, 99.9% — ITEM A6603

$Rb_2Cr_2O_7$ F.W. 386.93

CAS # 13446-73-6 DOT 6.1/III

63721	10 G

RUBIDIUM IODIDE, 99.8% — ITEM A6615

RbI F.W. 212.37

Assay (metals basis) 99.8%

CAS # 7790-29-6 DOT NR

63752	5 G
63751	25 G

RUBIDIUM NITRATE, 99.98% — ITEM 5097

$RbNO_3$ F.W. 147.48

Assay (metals basis) 99.98% min

CAS # 13126-12-0 DOT 5.1/III

87931	1 G
87932	5 G
87933	25 G

RUBIDIUM NITRATE, 99.8% ITEM 1016

$RbNO_3$ F.W. 147.48

Assay (metals basis) 99.8% min Assay (as RbNO3) 98% min
Insoluble 0.01%

Al 10 ppm	Ba 10 ppm	Ca 50 ppm
Cs 300 ppm	Cu 10 ppm	Co 10 ppm
Fe 10 ppm	K 200 ppm	Li 10 ppm
Mg 50 ppm	Na 100 ppm	Sr 10 ppm

CAS # 13126-12-0 DOT 5.1/III NFPA # 1-0-1

63771	25 G
63772	100 G
63776	50 KG
63777	100 KG
63778	500 KG

RUBIDIUM NITRATE, TECHNICAL ITEM 5384

$RbNO_3$ F.W. 147.48

Assay 96%

CAS # 13126-12-0 DOT 5.1/III NFPA # 1-0-1

Please Inquire For Sizes

RUBIDIUM PERCHLORATE, REAGENT ITEM 340

$RbClO_4$ F.W. 184.94

Assay 98% min. Insoluble 0.005%
Chloride 0.003% Sulfate 0.001%
Iron 0.0005% Heavy Metals 0.0005%
pH of saturated solution 6.0-8.0

CAS # 13510-42-4 DOT 5.1/II NFPA # 1-0-1

63801	25 G
63802	100 G
63803	500 G

RUBIDIUM PHOSPHATE, MONOBASIC, REAGENT ITEM 5296

Not on the TSCA inventory.

RbH_2PO_4 F.W. 182.46

Assay 98% Assay (metals basis) 99.99%

CAS # 13774-16-8 DOT NR

Please Inquire For Sizes

RUBIDIUM SULFATE, REAGENT ITEM 1017

Rb_2SO_4 F.W. 267.00

Insoluble 0.01% Chloride 0.003%

CAS # 7488-54-2 DOT NR

63831	25 G
63832	100 G

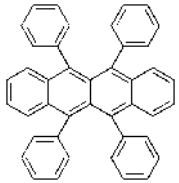
RUBRENE ITEM 3307

$C_{42}H_{28}$ F.W. 532.69

Melting point > 315 C Appearance - Dark orange crystal

CAS # 517-51-1 DOT NR

83013	1 G
83011	5 G
83012	25 G



RUTHENIUM, 10,000 ppm ICP STANDARD SOLUTION ITEM 1794

Concentration 10,000 ± 100 ug/ml Matrix: 20% Hydrochloric acid
NIST Traceable

DOT 8/II

22940	100 ML
22942	500 ML

Specific Gravity 1.040

RUTHENIUM, 1,000 ppm ICP STANDARD SOLUTION ITEM 1793

Concentration 1,000 ± 10 ug/ml Matrix: 20% Hydrochloric acid
NIST Traceable

DOT 8/II

22930	100 ML
22932	500 ML

Specific Gravity 1.040

RUTHENIUM CATALYST

See Royer Ruthenium Catalyst Beads

RUTHENIUM CHLORIDE, HYDRATED, REAGENT ITEM 1018

x hydrate is about 3.

$RuCl_3 \bullet xH_2O$ F.W. 261.47

Assay (Ru) 36.5% min. Insoluble 0.01%

CAS # 14898-67-0 DOT 8/II

63871	1 G
63872	5 G

R

RUTHENIUM TRIS(BATHOPHENANTHROLINE) CHLORIDE

See Tris-(Bathophenanthroline) Ruthenium (II) Chloride

RUTHENIUM TRIS(2,2'-BIPYRIDINE) CHLORIDE

See Tris-(2,2'-Bipyridine) Ruthenium (II) Chloride

RUTHENIUM TRIS(1,10-PHENANTHROLINE) CHLORIDE

See Tris-(1,10-Phenanthroline) Ruthenium (II) Chloride

SACCHARIC ACID, MONOPOTASSIUM SALT — ITEM 2580

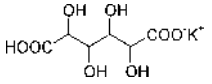
Not on the TSCA inventory.

$HOOC(CH(OH))_4COOK$ F.W. 248.24

Assay 98% min. Melting point

CAS # 576-42-1 DOT 9/III

63981 25 G
63982 100 G



SAL AMMONIAC

See Ammonium Chloride

SALICYLALDEHYDE, 98% — ITEM 2761

2-Hydroxybenzaldehyde

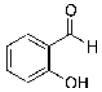
HOC_6H_4CHO F.W. 122.12

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 90-02-8 DOT NR NFPA # 0-2-0

63991 100 G
63993 1 KG

Specific Gravity 1.146



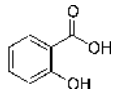
SALICYLIC ACID, REAGENT (ACS) — ITEM 799

$C_6H_4(OH)COOH$ F.W. 138.12

Assay 99.0% min. Melting point 158.0-161.0 C
Residue after ignition 0.01% Chloride 0.001%
Sulfate 0.003% Heavy Metals (Pb) 0.0005%
Iron 0.0002% Substances darkened by H2SO4-pass test

CAS # 69-72-7 DOT NR NFPA # 1-1-1

64100 100 G
64101 500 G
64102 2.5 KG
64103 10 KG
64104 50 KG



bis-(SALICYLIDENE)-ETHYLENEDIAMINE, 98% — ITEM 369

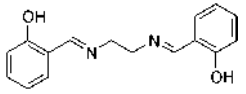
Reagent for the fluorometric determination of magnesium. C.E. White and F. Cuttitta, Anal. Chem., 31,2083 (1959).

$C_6H_4(OH)CH=N-C_2H_4N=CH(OH)C_6H_4$ F.W. 268.32

Assay (GC-FID), 97.5% min Assay (Nonaqueous titration), 97.5% - 102.5%
Color - Yellow to dark yellow Form - Flaky crystal or powder

CAS # 94-93-9 DOT NR

17002 10 G
17003 50 G



SAMARIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1796

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III

22960 100 ML
22962 500 ML

Specific Gravity 1.030

SAMARIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1795

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III

22950 100 ML
22952 500 ML

Specific Gravity 1.030

SAMARIUM ACETATE, 99.9% **ITEM A6672**

$Sm(C_2H_3O_2)_3 \bullet 3H_2O$ F.W. 381.55

CAS # 10465-27-7 DOT NR

64111 25 G

SAMARIUM ACETYLACETONATE **ITEM 5159**

Not on the TSCA inventory. For R&D use only.

$Sm(C_5H_7O_2)_3 \bullet XH_2O$ F.W. 447.69 (ANHYD.)

Samarium content Report Water content Report

CAS # 86322-73-8 DOT NR

12881 25 G
12882 100 G

SAMARIUM BROMIDE, 99.9% **ITEM A6678**

$SmBr_3 \bullet 6H_2O$ F.W. 498.17

CAS # 13759-87-0 DOT NR

64121 25 G

SAMARIUM CARBONATE, 99.9% **ITEM 2234**

$Sm_2(CO_3)_3$ F.W. 480.75

CAS # 5895-47-6 DOT NR

26331 25 G

SAMARIUM CARBONATE, 99% **ITEM A6684**

$Sm_2(CO_3)_3$ F.W. 480.75

Assay (metals basis) 99% min

CAS # 5895-47-6 DOT NR

64131 25 G

SAMARIUM CHLORIDE, ANHYDROUS 99.9% **ITEM 1489**

$SmCl_3$ F.W. 256.73

CAS # 10361-82-7 DOT NR

63852 5 G
63851 25 G

SAMARIUM CHLORIDE, 99.99% **ITEM 2236**

$SmCl_3 \bullet 6H_2O$ F.W. 364.82

CAS # 10361-82-7 DOT NR

26352 5 G
26351 25 G

SAMARIUM CHLORIDE, 99.9% **ITEM A6690**

$SmCl_3 \bullet 6H_2O$ F.W. 364.82

CAS # 10361-82-7 DOT NR

64151 25 G

SAMARIUM FLUORIDE, 99.9% **ITEM A6696**

$SmF_3 \bullet xH_2O$ F.W. 207.35 + XH2O

CAS # 13765-24-7 DOT NR

64181 25 G

SAMARIUM FLUORIDE, 99% **ITEM A6693**

$SmF_3 \bullet xH_2O$ F.W. 207.35 + XH2O

CAS # 13765-24-7 DOT NR

64171 25 G

SAMARIUM NITRATE, 99.99% **ITEM 2237**

$Sm(NO_3)_3 \bullet 6H_2O$ F.W. 444.48

CAS # 13759-83-6 DOT 5.1/III

26362 5 G
26361 25 G

SAMARIUM NITRATE, 99.9% **ITEM A6714**

$Sm(NO_3)_3 \bullet 6H_2O$ F.W. 444.48

Assay (metals basis) 99.9% Samarium content (by EDTA titration) 33.0-34.7%

CAS # 13759-83-6 DOT 5.1/III

64222 10 G
64221 50 G

SAMARIUM OXALATE, 99.9% **ITEM 2235**

$Sm_2(C_2O_4)_3 \bullet 10H_2O$ F.W. 744.95

CAS # 3252-68-4 DOT NR

26341 25 G

SAMARIUM OXALATE, 99% **ITEM A6720**

$Sm_2(C_2O_4)_3 \bullet 10H_2O$ F.W. 744.95

Assay (metals basis) 99% min

CAS # 3252-68-4 DOT NR

64231 50 G

S

SAMARIUM OXIDE, 99.99% **ITEM 2238**

Sm_2O_3 F.W. 348.70

Assay (metals basis) 99.99% min.

CAS # 12060-58-1 DOT NR

26371 25 G

SAMARIUM OXIDE, 99.9% **ITEM 580**

Sm_2O_3 F.W. 348.70

Assay (metals basis) 99.9% min.

CAS # 12060-58-1 DOT NR

64201 25 G
64202 100 G

SAMARIUM PERCHLORATE, HYDRATED, 50% SOLUTION, REAGENT **ITEM 530**

$Sm(ClO_4)_3 \bullet 6H_2O$ F.W. 556.80

Samarium content 13.0-14.0% Insoluble 0.01%
Chloride 0.01%

CAS # 13569-60-3 DOT NR

64301 20 G
64302 50 G

SAMARIUM PHOSPHATE, 99.9% **ITEM A6739**

$SmPO_4 \bullet xH_2O$ F.W. 246.41 + XH2O

Assay (metals basis) 99.9% min.

CAS # 13465-57-1 DOT NR

64321 10 G

SAMARIUM SULFATE, 99.9% **ITEM A6744**

$Sm_2(SO_4)_3 \bullet 8H_2O$ F.W. 733.05

Assay (metals basis) 99.9%

CAS # 13692-98-3 DOT NR

64351 25 G

SAMARIUM SULFATE, 99% **ITEM A6741**

$Sm_2(SO_4)_3 \bullet 8H_2O$ F.W. 733.05

Assay metals basis 99% min

CAS # 13692-98-3 DOT NR

64341 50 G

SAMARIUM TRIFLATE

See Samarium Trifluoromethanesulfonate, 98%

SAMARIUM TRIFLUOROMETHANESULFONATE, 98% **ITEM 3539**

Not on the TSCA inventory

$Sm(CF_3SO_3)_3$ F.W. 597.56

Assay 98%

CAS # 52093-28-4

64311 2 G
64312 10 G

SAND, CHROMATOGRAPHIC

See Silica Sand, -50+70 Mesh

SCANDIUM, 10,000 ppm ICP STANDARD SOLUTION **ITEM 1798**

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22980 100 ML
22982 500 ML

Specific Gravity 1.030

SCANDIUM, 1,000 ppm ICP STANDARD SOLUTION **ITEM 1797**

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22970 100 ML
22972 500 ML

Specific Gravity 1.030

SCANDIUM ACETATE, 99.99%, HYDRATE **ITEM 5161**

$Sc(C_2H_3O_2)_3 \bullet XH_2O$ F.W. 222.09

Assay (metals basis) 99.99% Scandium content 15.0-16.5%

CAS # 3804-23-7 DOT NR

12921 1 G
12922 5 G

SCANDIUM ACETYLACETONATE **ITEM 5162**

Not on the TSCA inventory. For R&D use only.

$Sc(C_5H_7O_2)_3 \bullet XH_2O$ F.W. 342.26 (ANHYD.)

CAS # 14284-94-7 DOT NR

12991 250 MG
12992 1 G
12993 5 G

SCANDIUM CARBONATE, 99.9% ITEM 5163

$Sc_2(CO_3)_3 \bullet XH_2O$ F.W. 269.94 (ANHYD.)

Assay (metals basis) 99.9%

CAS # 5809-49-4 DOT NR

13051 1 G
13052 5 G

SCANDIUM CHLORIDE, ANHYDROUS, 99.9% ITEM 5164

$ScCl_3$ F.W. 151.32

Assay (metals basis) 99.9% Scandium content (by EDTA) 28.2-30.3%

CAS # 10361-84-9 DOT NR

13061 250 MG
13062 1 G
13063 5 G

SCANDIUM CHLORIDE, HEXAHYDRATE, 99.99% ITEM 5165

$ScCl_3 \bullet 6H_2O$ F.W. 259.41

Assay (metals basis) 99.99% Scandium content (by EDTA) 16.5-18.0%

CAS # 20662-14-0 DOT NR

13071 1 G
13072 5 G

SCANDIUM CHLORIDE, HEXAHYDRATE, 99.9% ITEM 3581

$ScCl_3 \bullet 6H_2O$ F.W. 259.41

Scandium content (by EDTA titration) Assay (metals basis) 99.9%

CAS # 20662-14-0 DOT NR

64371 1 G
64372 5 G

SCANDIUM NITRATE, HYDRATE, 99.99% ITEM 5166

$Sc(NO_3)_3 \bullet xH_2O$ F.W. 230.97

Assay (metals basis) 99.99% Scandium content (by EDTA titration) 14.0-15.5%

CAS # 115906-70-2 DOT 5.1/II

13081 1 G
13082 5 G

SCANDIUM NITRATE, HYDRATE, 99.9% ITEM 3582

$Sc(NO_3)_3 \bullet xH_2O$ F.W. 230.97

Scandium content (by EDTA titration) 14.0-15.5% Assay (metals basis) 99.9%

CAS # 115906-70-2 DOT 5.1/II

64391 1 G
64392 5 G

SCANDIUM OXIDE, 99.99% ITEM 3583

Sc_2O_3 F.W. 137.91

Assay (metals basis) 99.99%

CAS # 12060-08-1 DOT NR

64411 1 G
64412 5 G

SCANDIUM OXIDE, 99.9% ITEM A6774

Sc_2O_3 F.W. 137.91

CAS # 12060-08-1 DOT NR

64381 1 G
64382 5 G

SCANDIUM PERCHLORATE, HYDRATED, 50% SOLUTION, REAGENT ITEM 518

$Sc(ClO_4)_3 \bullet 6H_2O$ F.W. 451.42

Assay 48.0-52.0% (w/w) Insoluble 0.01%
Chloride 0.01%

CAS # 14066-05-8 DOT NR

64401 20 G
64402 50 G

SCANDIUM TRIFLATE

See Scandium Trifluoromethanesulfonate, 99%

SCANDIUM TRIFLUOROMETHANESULFONATE, 99% ITEM 3540

Not on the TSCA inventory

$Sc(CF_3SO_3)_3$ F.W. 492.16

Assay 99%

CAS # 144026-79-9

64441 250 MG
64442 1 G
64443 5 G

SEC-BUTYL IODIDE

See 2-Iodobutane

SELENIUM, 99.99% PELLETS ITEM 2986

Se F.W. 78.96

Assay (metals basis) 99.99% min.

CAS # 7782-49-2 DOT NR NFPA # 2-0-1

64461 50 G
64462 250 G

S

SELENIUM, 99% POWDER — ITEM 2987

Se F.W. 78.96

Assay (metals basis) 99% min.

CAS # 7782-49-2 DOT NR NFPA # 2-0-1

64471	50 G
64472	250 G

SELENIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1800

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

23000	100 ML
23002	500 ML

Specific Gravity 1.030

SELENIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1799

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

22990	100 ML
22992	500 ML

Specific Gravity 1.030

SELENIUM, 1,000 ppm STANDARD SOLUTION — ITEM 1569

AA, colorimetric or volumetric standard

Concentration 1,000 ± 10 ug/ml Matrix: Nitric acid
NIST Traceable

DOT NR NFPA # 2-0-1

70390	100 ML
70392	500 ML

Specific Gravity 1.030

SELENIUM DIOXIDE, 99.999% — ITEM A6801

Double Sublimed

SeO_2 F.W. 110.96

CAS # 7446-08-4 DOT 6.1/III NFPA # 3-0-1

64522	5 G
64521	25 G

SELENIUM DIOXIDE, 99.8% — ITEM 1189

May contain traces of unreacted selenium which appear as black specks.

SeO_2 F.W. 110.96

Assay (metals basis) 99.8%

CAS # 7446-08-4 DOT 6.1/III NFPA # 3-0-1

64501	100 G
64502	500 G
64503	2.5 KG

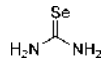
SELENOUREA, 99.9% — ITEM 3589

$H_2NC(Se)NH_2$ F.W. 123.02

Assay (metals basis) 99.9%

CAS # 630-10-4 DOT 6.1/II

64551	1 G



SILICA, 99.99+% — ITEM A6846

0.03 micron powder

SiO_2 F.W. 60.09

Assay (metals basis) 99.99%

CAS # 7631-86-9 DOT NR NFPA # 2-0-0

64622	10 G
64621	50 G

SILICA, 60A, 37-63 MICRON (230-400 MESH) — ITEM 2825

Irregular, chromatographic grade. 60 angstrom pore size, standard particle size distribution of 230-400 mesh (37-63 micron). Surface area 500 m2/g. M-N # 815380.

CAS # 7631-86-9 DOT NR

89471	100 G
89472	500 G
89473	2.5 KG
89474	10 KG

SILICA, 60A, 53-115 MICRON (130-270 MESH) — ITEM 2826

Irregular, chromatographic grade. 60 angstrom pore size, standard particle size distribution of 130-270 mesh (53-115 micron). Surface area 500 m2/g. M-N # 815390.

CAS # 7631-86-9 DOT NR

89481	100 G
89482	500 G
89483	2.5 KG

SILICA, 60A, 53-210 MICRON (70-270 MESH) ITEM 2827

Irregular, chromatographic grade. 60 angstrom pore size, standard particle size distribution of 70-270 mesh (53-210 micron). Surface area 500 m2/g. M-N # 815320.

CAS # 7631-86-9 DOT NR

89491	100 G
89492	500 G
89493	2.5 KG

SILICA, 60A, 63-210 MICRON (70-230 MESH) ITEM 2828

Irregular, chromatographic grade. 60 angstrom pore size, standard particle size distribution of 70-230 mesh (63-210 micron). Surface area 500 m2/g. M-N # 815330.

CAS # 7631-86-9 DOT NR

89501	100 G
89502	500 G
89503	2.5 KG

SILICA, TLC, STANDARD ITEM 2819

Irregular silica for TLC applications. 60 angstrom pore size, -400 mesh (5-25 micron) particle size. Surface area 500 m2/g. M-N # 816330.

CAS # 7631-86-9 DOT NR

89411	100 G
89412	500 G
89413	2.5 KG

SILICA, TLC, STANDARD, WITH GYPSUM BINDER ITEM 2820

Irregular silica for TLC applications. 60 angstrom pore size, -400 mesh (5-25 micron) particle size. Surface area 500 m2/g. With gypsum binder. M-N # 816310.

CAS # 7631-86-9 DOT NR

89421	100 G
89422	500 G
89423	2.5 KG

SILICA, TLC, STANDARD, WITH FLUORESCENT INDICATOR ITEM 2821

Irregular silica for TLC applications. 60 angstrom pore size, -400 mesh (5-25 micron) particle size. Surface area 500 m2/g. With fluorescent indicator (F-254). M-N # 816340.

CAS # 7631-86-9 DOT NR

89431	100 G
89432	500 G
89433	2.5 KG

SILICA, TLC, STANDARD, WITH BINDER AND INDICATOR ITEM 2822

Irregular silica for TLC applications. 60 angstrom pore size, -400 mesh (5-25 micron) particle size. Surface area 500 m2/g. With gypsum binder and fluorescent indicator (F-254). M-N # 816320.

CAS # 7631-86-9 DOT NR

89441	100 G
89442	500 G
89443	2.5 KG

SILICA, TLC, ULTRAPURE 60A, 2-25 MICRON (-400 MESH) ITEM 2823

Irregular, ultrapure silica. 60 angstrom pore size, -400 mesh (2-25 micron) particle size. Surface area 500 m2/g. M-N # 816410HP.

CAS # 7631-86-9 DOT NR

89451	100 G
89452	500 G
89453	2.5 KG

SILICA, TLC, ULTRAPURE 60A, 2-25 MICRON (-400 MESH), WITH GYPSUM BINDER ITEM 2824

Irregular, ultrapure silica. 60 angstrom pore size, -400 mesh (2-25 micron) particle size. Surface area 500 m2/g. With gypsum binder. M-N # 816430HP.

CAS # 7631-86-9 DOT NR

89461	100 G
89462	500 G
89463	2.5 KG

SILICA GEL, 28-200 MESH, GRADE 12 FOR CHROMATOGRAPHY ITEM 2780

For chromatographic applications

SiO_2 F.W. 60.09

Loss on Drying @ 200 C 5.0% max. Particle Size on 70 Mesh 6.0% max. Particle Size Through 200 Mesh 6.0% max.

CAS # 7631-86-9 DOT NR NFPA # 1-0-0

89051	100 G
89052	500 G
89053	2.5 KG

SILICA GEL, 100-200 MESH, GRADE 923 FOR CHROMATOGRAPHY ITEM 82

For chromatographic applications

SiO_2 F.W. 60.09

Assay 99.7% min. pH (5% slurry) 5.5-7.0
Iron 0.005% Loss on ignition (1750 F) 4.5-10.0%
Surface area 430-530 m2/g

CAS # 7631-86-9 DOT NR NFPA # 1-0-0

64603	100 G
64601	500 G

S

SILICA GEL BEADS, +8 MESH, GRADE 03 — ITEM 2779

For gas dehydration, hydrocarbon removal

SiO_2 F.W. 60.09

Particle size on 8 mesh 95% min.

CAS # 7631-86-9 DOT NR

89041	500 G
89042	1 KG
89043	5 KG

SILICA GEL, 30-200 MESH, INDICATING, GRADE 13 — ITEM 2782

For dehydration where fine particle size and moisture indication is required. 5% blue indicating gel.

SiO_2 F.W. 60.09

CAS # 7631-86-9 DOT NR

89061	500 G
89062	1 KG
89063	5 KG

SILICA GEL, 60-200 MESH, GRADE 22 — ITEM 2784

S

SiO_2 F.W. 60.09

CAS # 7631-86-9 DOT NR

89081	100 G
89082	500 G
89083	2.5 KG

SILICA GEL BEADS, 6-14 MESH, GRADE 40 — ITEM 2785

Desiccant. Also meets Mil-D 3716B Type II Grade H Specifications.

SiO_2 F.W. 60.09

CAS # 7631-86-9 DOT NR

89091	1 KG
89092	5 KG

SILICA GEL BEADS, 10-18 MESH, INDICATING, GRADE 47 — ITEM 2786

Blue indicating desiccant.

SiO_2 F.W. 60.09

Loss on drying @ 170 C 1.5% max. Particle size 10 - 18 mesh 90% min.
Appearance - Blue beads

CAS # 7631-86-9 DOT NR NFPA # 1-0-0

89101	500 G
89102	2.5 KG

SILICA GEL BEADS, 3-10 MESH INDICATING, GRADE 48 — ITEM 2787

Blue indicating desiccant.

SiO_2 F.W. 60.09

Loss on drying @ 170 C 1.5% max. Particle size - 3 - 10 mesh 90% min.
Appearance - Blue beads

CAS # 7631-86-9 DOT NR

89111	100 G
89112	500 G
89113	2.5 KG

SILICA GEL BEADS, 3-8 MESH, GRADE 59 — ITEM 2788

Intermediate density adsorbent.

SiO_2 F.W. 60.09

On 6 mesh screen 35% min. Through 8 mesh screen 7% max.
Loss on ignition @ 950 C 5.5 max.

CAS # 7631-86-9 DOT NR

89121	500 G
89122	2.5 KG

SILICA GEL, 150 A, 60-200 MESH, GRADE 62 — ITEM 2789

Large pore diameter, intermediate density, also suitable as catalyst support.

SiO_2 F.W. 60.09

Loss on Drying @ 200 C 9.0% Particle size - on 60 mesh 7.5%
Particle size - through 200 mesh 10.0%

CAS # 7631-86-9 DOT NR

89131	100 G
89132	500 G
89133	2.5 KG

SILICA GEL, 12-24 MESH, GRADE 408 — ITEM 2792

Granular desiccant.

SiO_2 F.W. 60.09

Suitability for moisture absorption - pass test

CAS # 7631-86-9 DOT NR

89141	500 G
89142	1 KG
89143	5 KG

SILICA GEL, 3-10 MESH, WITH 30% INDICATING BEADS — ITEM 1986

Indicating desiccant with 30% blue gel, 70% white gel.

SiO_2 F.W. 60.09

Loss on ignition (1000 C) 6.5% max.

CAS # 7631-86-9 DOT NR

64591	100 G
64592	500 G

SILICA, GFSELECT™, 40A, 40-63 MICRON (230-350 MESH) — ITEM 2798

Irregular, chromatographic grade. 40 angstrom pore size, 230-350 mesh (40-63 micron) particle size.

CAS # 7631-86-9 DOT NR

89201	100 G
89202	500 G
89203	2.5 KG

SILICA, GFSELECT™, 40A, 60-200 MICRON (70-230 MESH) — ITEM 2799

Irregular, chromatographic grade. 40 angstrom pore size, 70-230 mesh (60-200 micron) particle size.

CAS # 7631-86-9 DOT NR

89211	100 G
89212	500 G
89213	2.5 KG

SILICA, GFSELECT™, 60A, 5-15 MICRON (-600 MESH) — ITEM 2801

Irregular, chromatographic grade. 60 angstrom pore size, -600 mesh (5-15 micron) particle size.

CAS # 7631-86-9 DOT NR

89231	100 G
89232	500 G
89233	2.5 KG

SILICA, GFSELECT™, 60A, 15-35 MICRON (-400 MESH) — ITEM 2802

Irregular, chromatographic grade. 60 angstrom pore size, -400 mesh (15-35 micron) particle size.

CAS # 7631-86-9 DOT NR

89241	100 G
89242	500 G
89243	2.5 KG

SILICA, GFSELECT™, 60A, 40-63 MICRON (230-350 MESH) — ITEM 2803

Irregular, chromatographic grade. 60 angstrom pore size, 230-350 mesh (40-63 micron) particle size.

CAS # 7631-86-9 DOT NR

89251	100 G
89252	500 G
89253	2.5 KG

SILICA, GFSELECT™, 60A, 60-120 MICRON (120-230 MESH) — ITEM 2804

Irregular, chromatographic grade. 60 angstrom pore size, 120-230 mesh (60-120 micron) particle size.

CAS # 7631-86-9 DOT NR

89261	100 G
89262	500 G
89263	2.5 KG

SILICA, GFS SELECT, 60 A, 120-200 MICRON — ITEM 2805

Irregular, chromatographic grade. 60 angstrom pore size, 70-120 mesh (120-200 micron), particle size

CAS # 7631-86-9 DOT NR

89271	100 G
89272	500 G
89273	2.5 KG

SILICA, GFS SELECT, 60A, 60-200 MICRON — ITEM 2806

Irregular, chromatographic grade. 60 angstrom pore size, 70-230 mesh (60-200 micron), particle size

CAS # 7631-86-9 DOT NR

89281	100 G
89282	500 G
89283	2.5 KG

SILICA, GFSELECT™, 60A, 200-500 MICRON (35-70 MESH) — ITEM 2807

Irregular, chromatographic grade. 60 angstrom pore size, 35-70 mesh (200-500 micron) particle size.

CAS # 7631-86-9 DOT NR

89291	100 G
89292	500 G
89293	2.5 KG

SILICA, GFSELECT™, 90A, 15-35 MICRON (-400 MESH) ITEM 2808

Irregular, chromatographic grade. 90 angstrom pore size, -400 mesh (15-35 micron) particle size.

CAS # 7631-86-9 DOT NR

89301	100 G
89302	500 G
89303	2.5 KG

SILICA, GFSELECT™, 90A, 40-63 MICRON (230-350 MESH) ITEM 2809

Irregular, chromatographic grade. 90 angstrom pore size, 230-350 mesh (40-63 micron) particle size.

CAS # 7631-86-9 DOT NR

89311	100 G
89312	500 G
89313	2.5 KG

SILICA, GFSELECT™, 90A, 60-200 MICRON (70-230 MESH) ITEM 2810

Irregular, chromatographic grade. 90 angstrom pore size, 70-230 mesh (60-200 micron) particle size.

S

CAS # 7631-86-9 DOT NR

89321	100 G
89322	500 G
89323	2.5 KG

SILICA, GFSELECT™, 90A, 200-500 MICRON (35-70 MESH) ITEM 2811

Irregular, chromatographic grade. 90 angstrom pore size, 35-70 mesh (200-500 micron) particle size.

CAS # 7631-86-9 DOT NR

89331	100 G
89332	500 G
89333	2.5 KG

SILICA, GFSELECT™, 150A, 40-63 MICRON (230-350 MESH) ITEM 2812

Irregular, chromatographic grade. 150 angstrom pore size, 230-350 mesh (40-63 micron) particle size.

CAS # 7631-86-9 DOT NR

89341	100 G
89342	500 G
89343	2.5 KG

SILICA, GFSELECT™, 150A, 60-120 MICRON (120-230 MESH) ITEM 2813

Irregular, chromatographic grade. 150 angstrom pore size, 120-230 mesh (60-120 micron) particle size 300 m2/g surface area.

CAS # 7631-86-9 DOT NR

89351	100 G
89352	500 G
89353	2.5 KG

SILICA, GFSELECT™, 150A, 60-200 MICRON (70-230 MESH) ITEM 2814

Irregular, chromatographic grade. 150 angstrom pore size, 70-230 mesh (60-200 micron) particle size.

CAS # 7631-86-9 DOT NR

89361	100 G
89362	500 G
89363	2.5 KG

SILICA, GFSELECT™, 150A, 120-200 MICRON (70-120 MESH) ITEM 2815

Irregular, chromatographic grade. 150 angstrom pore size, 70-120 mesh (120-200 micron) particle size.

CAS # 7631-86-9 DOT NR

89371	100 G
89372	500 G
89373	2.5 KG

SILICA, GFSELECT™/TLC, WITH GYPSUM BINDER ITEM 2816

Irregular silica for TLC applications. 60 angstrom pore size, -600 mesh (5-15 micron) particle size. Surface area 500 m2/g. With gypsum binder.

CAS # 7631-86-9 DOT NR

89381	100 G
89382	500 G
89383	2.5 KG

SILICA, GFSELECT™/TLC, WITH FLUORESCENT INDICATOR ITEM 2817

Irregular silica for TLC applications. 60 angstrom pore size, -600 mesh (5-15 micron) particle size. Surface area 500 m2/g. With fluorescent indicator (F-254).

CAS # 7631-86-9 DOT NR

89391	100 G
89392	500 G
89393	2.5 KG

SILICA, GFSELECT™/TLC, WITH BINDER AND INDICATOR — ITEM 2818

Irregular silica for TLC applications. 60 angstrom pore size, -600 mesh (5-15 micron) particle size. Surface area 500 m2/g. With gypsum binder and fluorescent indicator (F-254).

CAS # 7631-86-9 DOT NR

89401	100 G
89402	500 G
89403	2.5 KG

SILICA SAND, -50+70 MESH, FOR CHROMATOGRAPHY — ITEM 2796

White quartz

SiO_2 F.W. 60.09

CAS # 14808-60-7 DOT NR

89181	1 KG
89182	5 KG
89183	25 KG

SILICA, 1,000 ppm, ION CHROMATOGRAPHY STANDARD SOLUTION — ITEM 3770

Concentration (as SiO2) 1,000 ± 10 ug/ml Matrix: Na2SiO3, water

DOT NR

23971	100 ML
23972	500 ML

Specific Gravity 1.000

SILICA, UNMODIFIED SPHERICAL

See Nucleodur 100-10

SILICIC ACID, 99.9%, — ITEM 2795

Refined

Assay (metals basis) 99.9% min.

CAS # 1343-98-2 DOT NR

89171	25 G
89172	100 G
89173	500 G

SILICIC ACID, -100 MESH, FOR CHROMATOGRAPHY — ITEM 2794

For Chromatographic applications

Loss on Ignition (typical) 10%
Sulfate 0.02%
Iron 0.01%
Chloride 0.01%
Heavy metals (as Pb) 0.005%

CAS # 1343-98-2 DOT NR

89161	25 G
89162	100 G
89163	500 G

SILICON, 99.999% — ITEM A6831

Ingot/pieces

Si F.W. 28.09

CAS # 7440-21-3 DOT NR

64641	25 G

SILICON, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1802

Concentration (as Si)
10,000 ± 100 ug/mL Matrix: 5% nitric acid w/trace HF
NIST Traceable

DOT 8/II NFPA # 1-0-1

23020	100 ML
23022	500 ML

Specific Gravity 1.030

SILICON, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1801

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid w/trace HF
NIST Traceable

DOT 8/II NFPA # 1-0-1

23010	100 ML
23012	500 ML

Specific Gravity 1.030

SILICON BORIDE, 99% — ITEM A6837

-325 mesh powder

SiB_6 F.W. 92.95

Assay (metals basis) 99% min.

CAS # 12008-29-6 DOT NR

64662	5 G
64661	25 G

SILICON CARBIDE, 98.8% — ITEM A6840

-325 mesh powder

SiC F.W. 40.10

Assay - Report Average Mesh Size - Report

CAS # 409-21-2 DOT NR

64681	500 G

SILICON CARBIDE CHIPS

See Carborundum Boiling Chips

SILICON DIOXIDE

See Silica Gel, 100-200 Mesh

SILICONE OIL — ITEM 8297

DOT NR

86021	10 ML

SILICON HEXABORIDE

See Silicon Boride, 99%

SILICON NITRIDE — ITEM A6867

Si_3N_4 F.W. 140.28

CAS # 12033-89-5 DOT NR

64701	100 G

SILVER, GRANULAR — ITEM 83

20-40 mesh. Reagent for Walden Silver Reductor.

Ag F.W. 107.88

Particle size - on 20 mesh 10% max Particle size - through 40 mesh 10% max.

CAS # 7440-22-4 DOT NR

65401	25 G
65402	100 G
65403	500 G
65404	2.5 KG

SILVER, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1804

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

23040	100 ML
23042	500 ML

Specific Gravity 1.030

SILVER, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1803

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

23030	100 ML
23032	500 ML

Specific Gravity 1.030

SILVER, 1,000 ppm STANDARD SOLUTION — ITEM 760

AA, colorimetric or volumetric standard

Concentration 1,000 ± 10 ug/ml Matrix: Silver nitrate in water
NIST Traceable

DOT NR NFPA # 2-0-1

70300	100 ML
70302	500 ML

Specific Gravity 1.000

SILVER ACETATE, PURIFIED — ITEM 615

$AgC_2H_3O_2$ F.W. 166.91

Assay 99%

CAS # 563-63-3 DOT NR NFPA # 2-0-0

64801	25 G
64802	100 G
64803	500 G
64804	2.5 KG
64805	10 KG

SILVER BROMIDE, PURIFIED — ITEM 616

AgBr F.W. 187.78

Assay 99.0% min

CAS # 7785-23-1 DOT NR NFPA # 1-0-0

64901	25 G
64902	100 G
64903	500 G
64904	2.5 KG

SILVER BROMATE, 97% — ITEM 3468

Not on the TSCA inventory

$AgBrO_3$ F.W. 235.78

Assay 97%

CAS # 7783-89-3 DOT 5.1/II

10000	5 G
10001	25 G
10002	100 G

SILVER CARBONATE, REAGENT — ITEM 617

Ag_2CO_3 F.W. 275.75

Assay 99.0%
Chloride 0.005%
Sulfate 0.005%
Insoluble in dilute HNO3 0.05%
Nitrate 0.10%
Substances not precipitated by HCl 0.05%

CAS # 534-16-7 DOT NR NFPA # 1-0-1

65001	25 G
65002	100 G
65003	500 G
65004	2.5 KG

S

SILVER CHLORIDE, REAGENT — ITEM 703

$AgCl$ F.W. 143.32

Assay 98.5% min.
Iron 0.001%
Nitrate 0.001%
Heavy Metals 0.001%
Soluble salts 0.0001%

CAS # 7783-90-6 DOT NR NFPA # 2-0-1

65101	25 G
65102	100 G
65103	500 G
65104	2.5 KG
65106	50 KG

SILVER CHROMATE, REAGENT — ITEM 571

Ag_2CrO_4 F.W. 331.73

Assay 95% min.

CAS # 7784-01-2 DOT 9/III NFPA # 4-0-3

65201	25 G
65202	100 G
65203	500 G
65204	2.5 KG

SILVER FLUORIDE — ITEM 3631

AgF F.W. 126.87

Assay 98%

CAS # 7775-41-9 DOT NR

65351	5 G
65352	25 G
65353	100 G

SILVER IODATE, REAGENT — ITEM 84

$AgIO_3$ F.W. 282.80

Insoluble in dilute NH4OH 0.01%
Water soluble salts 0.1%

CAS # 7783-97-3 DOT 5.1/II NFPA # 2-0-3

65501	25 G
65502	100 G
65503	500 G
65504	2.5 KG

SILVER IODIDE, REAGENT — ITEM 1190

AgI F.W. 234.77

Heavy metals (as Pb) 0.002%
Iron 0.001%
Other halogens 0.1%
Water soluble salts 0.1%

CAS # 7783-96-2 DOT NR NFPA # 1-0-0

65521	25 G
65522	100 G
65523	500 G
65524	2.5 KG

SILVER NITRATE, 99.9999% — ITEM 5086

$AgNO_3$ F.W. 169.89

Assay (metals basis) 99.9999% min.

CAS # 7761-88-8 DOT 5.1/II NFPA # 3-0-0

87821	1 G
87822	5 G
87823	25 G
87824	100 G

SILVER NITRATE, 99.99+% — ITEM 5087

$AgNO_3$ F.W. 169.89

Assay (metals basis) 99.99+% min.

CAS # 7761-88-8 DOT 5.1/II NFPA # 3-0-0

87831	5 G
87832	25 G
87833	100 G

SILVER NITRATE, REAGENT (ACS) — ITEM 378

$AgNO_3$ F.W. 169.89

Assay 99.0% min
Clarity of solution - Pass Test
Chloride 0.0005%
Free acid - Pass Test
Substances not precipitated by HCl 0.01%
Sulfate 0.002%
Copper 0.0002%
Iron 0.0002%
Lead 0.001%

CAS # 7761-88-8 DOT 5.1/II NFPA # 3-0-0

65601	25 G
65602	100 G
65603	500 G
65604	2.5 KG
65605	10 KG
65606	30 KG
65607	4 X 30 KG

SILVER NITRATE, SOLUTION, 1.0 N — ITEM 1675

1.0 mol/L

$AgNO_3$ F.W. 169.89

Concentration 1.000 ± 0.005 N

CAS # 7761-88-8 DOT 8/II

65611	500 ML
65612	6 X 500 ML
65613	4 L
65614	4 X 4 L

Specific Gravity 1.150

SILVER NITRATE, SOLUTION, 0.5 N ITEM 2108

0.5 mol/L

$AgNO_3$ F.W. 169.89

Concentration 0.500 ± 0.001 N

CAS # 7761-88-8 DOT NR NFPA # 2-0-0

25071 500 ML

Specific Gravity 1.060

SILVER NITRATE, SOLUTION, 0.20 N ITEM 9283

$AgNO_3$ F.W. 169.89

Concentration 0.200 ± 0.001 N

CAS # 7761-88-8 DOT NR

25074 1 L
25075 6 X 1 L

SILVER NITRATE, SOLUTION, 0.153 N ITEM 1228

0.153 mol/L

$AgNO_3$ F.W. 169.89

Concentration 0.1530 N ± 0.0005

S

CAS # 7761-88-8 DOT NR NFPA # 2-0-0

65631 500 ML
65632 4 L

Specific Gravity 1.020

SILVER NITRATE, SOLUTION, 0.141 N ITEM 2107

0.141 mol/L. 1 ml = 5 mg Cl

$AgNO_3$ F.W. 169.89

Concentration 0.141N ±0.0005N

CAS # 7761-88-8 DOT NR

25061 500 ML
25062 4 L

Specific Gravity 1.020

SILVER NITRATE, SOLUTION, 0.10 N ITEM 733

0.1 mol/L

$AgNO_3$ F.W. 169.89

Concentration 0.1000 ± 0.0005 N NIST Traceable

CAS # 7761-88-8 DOT NR NFPA # 2-0-0

65621 500 ML
65623 6 X 500 ML
65626 1 L
65627 6 X 1 L
65622 4 L
65625 4 X 4 L
65624 20 L

Specific Gravity 1.010

SILVER NITRATE, SOLUTION, 0.05 N ITEM 1285

0.05 mol/L

$AgNO_3$ F.W. 169.89

Concentration 0.0500 ± 0.0001 N

CAS # 7761-88-8 DOT NR NFPA # 2-0-0

65641 500 ML
65642 4 L

Specific Gravity 1.010

SILVER NITRATE, SOLUTION, 0.02 N ITEM 2106

0.02 mol/L

$AgNO_3$ F.W. 169.89

Concentration 0.0200 ± 0.0001 N

CAS # 7761-88-8 DOT NR

25054 1 L
25053 6 X 1 L
25051 4 L
25052 4 X 4 L

Specific Gravity 1.000

SILVER NITRATE, SOLUTION, 0.0141 N ITEM 3514

0.0141 mol/L. 1 ml = 0.5 mg Cl

$AgNO_3$ F.W. 169.89

Concentration 0.0141 ± 0.0002 N

CAS # 7761-88-8 DOT NR

65651 1 L
65652 6 X 1 L
65653 4 L
65654 4 X 4 L

Specific Gravity 1.000

SILVER NITRATE SOLUTION 10% W/V ITEM 2187

$AgNO_3$ F.W. 169.89

Concentration 10 ± 0.5%

CAS # 7761-88-8 DOT 8/II

65591 500 ML

Specific Gravity 1.090

SILVER NITRATE, SOLUTION, 0.02 N, in ISOPROPYL ALCOHOL ITEM 5584

0.02 mol/L

$AgNO_3$ F.W. 169.89

Concentration 0.0200 ± 0.0001 N Water 0.2% max.

CAS # 7761-88-8 DOT 3/II

18191 4 L

SILVER NITRITE — ITEM 3630

$AgNO_2$ F.W. 153.88

Assay 98%

CAS # 7783-99-5 DOT 5.1/II

65671	10 G
65672	50 G
65673	250 G

SILVER OXIDE — ITEM 3628

Silver (I) oxide

Ag_2O F.W. 231.74

Assay 99%

CAS # 20667-12-3 DOT 5.1/II

65681	10 G
65682	50 G
65683	250 G

SILVER (II) OXIDE, TECHNICAL — ITEM 3629

Predominantly silver (II) oxide, contains silver(I) oxide.

AgO

Assay (AgO) 90% min. Ag2O content 10% max.

CAS # 1301-96-8 DOT 5.1/II

65691	10 G
65692	50 G

SILVER PERCHLORATE, ANHYDROUS, REAGENT — ITEM 86

$AgClO_4$ F.W. 207.34

Assay (by silver titration) 97% min. Insoluble 0.1%
Chloride 0.001% Sulfate 0.001%
Iron 0.002% pH of 5% solution 5.0-7.0 @ 25 C
Moisture 2% max.

CAS # 7783-93-9 DOT 5.1/II

65701	25 G
65702	100 G
65703	500 G
65704	2.5 KG
65705	10 KG

SILVER PERCHLORATE, HYDRATED, 99.999% — ITEM 5089

$AgClO_4 \bullet H_2O$ F.W. 225.33

Assay (metals basis) 99.999% min.

CAS # 14242-05-8 DOT 5.1/II

87851	5 G
87852	25 G

SILVER PERCHLORATE, HYDRATED, REAGENT — ITEM 87

$AgClO_4 \bullet H_2O$ F.W. 225.33

Assay (by silver titration) 98% min. Insoluble 0.005%
Chloride 0.001% Sulfate 0.001%
Iron 0.002% pH of 5% solution 4.0-7.0

CAS # 14242-05-8 DOT 5.1/II

65721	25 G
65722	100 G
65723	500 G
65724	2.5 KG
65725	10 KG

SILVER SULFATE, 99.999% — ITEM 5088

Ag_2SO_4 F.W. 311.80

Assay (metals basis) 99.999% min.

CAS # 10294-26-5 DOT NR NFPA # 2-0-0

87841	5 G
87842	25 G

SILVER SULFATE, REAGENT (ACS) — ITEM 618

Ag_2SO_4 F.W. 311.80

Assay 98.0% min Insoluble 0.02%
Nitrate 0.001% Substances not precipitated by HCl 0.03%
Iron 0.001%

CAS # 10294-26-5 DOT NR NFPA # 2-0-0

66001	25 G
66002	100 G
66003	500 G
66004	2.5 KG
66005	10 KG

SILVER TETRAFLUOROBORATE — ITEM 3627

$AgBF_4$ F.W. 194.68

Assay 98%

CAS # 14104-20-2 DOT 8/II

66041	2 G
66042	10 G
66043	50 G

SILVER TRIFLATE

See Silver Trifluoromethanesulfonate, 99%

SILVER TRIFLUOROACETATE, 98% — ITEM 5217

$AgOOCCF_3$ F.W. 220.88

Assay 98%

CAS # 2966-50-9 DOT NR

13111	5 G
13112	25 G

S

SILVER TRIFLUOROMETHANESULFONATE, 99% — ITEM 3542

$Ag(CF_3SO_3)$ F.W. 256.94

Assay 99%

CAS # 2923-28-6 DOT NR

66011	2 G
66012	10 G
66013	50 G

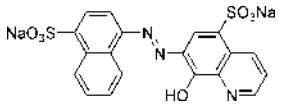
SNAZOXS — ITEM 380

7-(4-Sulfo-1-Naphthylazo)-8-Hydroxyquinoline-5-Sulfonic Acid, Sodium Salt. Indicator for complexometric titrations. Guerin, Sheldon and Reilley, Chemist Analyst, 49, 36 (1960).

$NaO_3SC_{10}H_6N{=}NC_9H_4N(OH)(SO_3Na)$ F.W. 503.42

CAS # 53611-17-9 DOT NR

66202 10 G



S

SODA LIME, INDICATING, REAGENT (ACS) 4-8 MESH — ITEM 3021

NaOH + CaO

Loss on drying @ 200 C 7%max.
Carbon dioxide absorption capacity 19%min.
Fines 1%

CAS # 8006-28-8 DOT 8/III NFPA # 2-0-1

66356	500 G
66357	2.5 KG

SODIUM, REAGENT (ACS) — ITEM 2427

Pieces (about 1" cubes), packed under argon.

Na F.W. 22.99

Heavy metals (as Pb) 0.0005%
Iron 0.001%
Nitrogen 0.003%
Chloride 0.002%
Sulfate 0.002%
Phosphate 0.0005%

CAS # 7440-23-5 DOT 4.3/I

88361	100 G
88362	500 G

SODIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1806

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

23060	100 ML
23062	500 ML

Specific Gravity 1.030

SODIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1805

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

23050	100 ML
23052	500 ML

Specific Gravity 1.030

SODIUM, 1,000 ppm STANDARD SOLUTION — ITEM 761

AA, colorimetric or volumetric standard

Concentration 1,000 ± 10 ug/ml Matrix: Sodium chloride in water
NIST Traceable

DOT NR NFPA # 1-0-0

70310	100 ML
70312	500 ML

Specific Gravity 1.000

SODIUM ACETATE, ANHYDROUS, BIO-REFINED™ — ITEM 1934

CH_3COONa F.W. 82.03

Assay 99.5% min.
Substances reducing KMnO4 0.005%
pH (0.5M in water @ 20 deg. C) 7.5-9.0
Loss on drying @ 105 deg. C 0.5%
Insoluble matter 0.005%
Chloride (Cl) 0.001%
Sulfate (SO4) 0.002%
Absorbance (0.50M in H2O) @ 260 nm 0.01 max
Absorbance (0.50M in H2O) @ 280 nm 0.01 max

Al 5 ppm	Ba 5 ppm	Bi 5 ppm
Ca 10 ppm	Cd 5 ppm	Co 5 ppm
Cr 5 ppm	Cu 5 ppm	Fe 5 ppm
K 50 ppm	Li 5 ppm	Mg 5 ppm
Mn 5 ppm	Mo 5 ppm	Ni 5 ppm
Pb 5 ppm	Sr 5 ppm	Zn 5 ppm

CAS # 127-09-3 DOT NR

66382	100 G
66381	500 G

SODIUM ACETATE, ANHYDROUS, REAGENT (ACS) — ITEM 1022

$NaC_2H_3O_2$ F.W. 82.03

Assay 99.0%
Loss on drying @ 120 C 1.0%
Chloride 0.002%
Sulfate 0.003%
Magnesium 0.002%
Iron 0.001%
Insoluble 0.01%
pH of 5% solution 7.0-9.2 @25C
Phosphate 0.001%
Calcium 0.005%
Heavy Metals (by ICP-OES) 0.001%

CAS # 127-09-3 DOT NR NFPA # 1-0-0

66391	500 G
66392	2.5 KG
66393	10 KG
66394	50 KG

SODIUM ACETATE, TRIHYDRATE, BIO-REFINED™ — ITEM 1935

$CH_3COONa•3H_2O$ F.W. 136.08

Assay 99.5% min.
pH (0.5M in water @ 20 deg. C) 7.5-9.0
Chloride (Cl) 0.0005%
Sulfate (SO4) 0.002%
Substances reducing KMnO4 0.005%
Insoluble matter 0.005%
Phosphate (PO4) 0.0005%
Absorbance (0.50M in H2O) @ 260 nm 0.01 max

Absorbance (0.50M in H2O) @ 280 nm 0.01 max

Al 5 ppm
Ca 10 ppm
Cr 5 ppm
K 50 ppm
Mn 5 ppm
Pb 5 ppm
Ba 5 ppm
Cd 5 ppm
Cu 5 ppm
Li 5 ppm
Mo 5 ppm
Sr 5 ppm
Bi 5 ppm
Co 5 ppm
Fe 5 ppm
Mg 5 ppm
Ni 5 ppm
Zn 5 ppm

CAS # 6131-90-4 DOT NR NFPA # 1-0-0

66431	500 G

SODIUM ACETATE, TRIHYDRATE, REAGENT (ACS) — ITEM 656

$CH_3COONa•3H_2O$ F.W. 136.08

Assay 99.0-101%
pH of 5% solution 7.5-9.2 @ 25 C
Phosphate 0.0005%
Calcium 0.005%
Heavy metals (as Pb) 0.0005%
Substances reducing permanganate - Pass Test
Insoluble 0.005%
Chloride 0.001%
Sulfate 0.002%
Magnesium 0.002%
Iron 0.0005%
Potassium 0.005%

CAS # 6131-90-4 DOT NR NFPA # 1-0-0

66401	500 G
66402	2.5 KG
66403	10 KG
66404	50 KG

SODIUM ACETATE, SOLUTION, 20%, IN WATER — ITEM 1542

Iron and copper free.

$CH_3COONa•3H_2O$ F.W. 136.08

Iron and Copper Free Pass Test

CAS # 6131-90-4 DOT NR NFPA # 1-0-0

66421	500 ML
66422	2.5 L
66423	4 L

Specific Gravity 1.100

SODIUM ACETATE, SOLUTION, 10%, IN WATER — ITEM 1084

Iron and copper free.

$CH_3COONa•3H_2O$ F.W. 136.08

Concentration 10 ± 1%
Copper
Iron

CAS # 6131-90-4 DOT NR NFPA # 1-0-0

66411	500 ML
66412	2.5 L

Specific Gravity 1.050

SODIUM ACETATE, 0.1 N, IN ACETIC ACID — ITEM 9064

Concentration 0.1000 ± 0.0050 N

DOT 8/3/II NFPA # 2-2-0

20171	1 L
20172	4 L

SODIUM ACETATE-2M ACETIC ACID BUFFER — ITEM 385

Iron and copper free. pH approximately 4.

$CH_3COONa\text{-}CH_3COOH$

Iron and Copper Free Pass Test

DOT NR

66501	500 ML
66502	4 L

Specific Gravity 1.100

SODIUM ACETYLACETONATE — ITEM A7092

$C_5H_7O_2Na$ F.W. 122.10

Water content 12% max.

CAS # 15435-71-9 DOT NR

66511	25 G

S

SODIUM AMMONIUM PHOSPHATE, REAGENT — ITEM 1023

$NaNH_4HPO_4 \bullet 4H_2O$ F.W. 209.07

Insoluble 0.005%
Nitrate 0.001%
Heavy Metals (Pb) 0.0005%
pH of 5% solution 7.5-8.5
Chloride 0.005%
Sulfate 0.005%
Iron 0.0005%

CAS # 7783-13-3 DOT NR NFPA # 2-0-1

66531 500 G
66532 2.5 KG

SODIUM ARSENITE, SOLUTION, 0.1 N — ITEM 2110

0.05 mol/l

$NaAsO_2$ F.W. 129.91

0.1 N ± 1% of the stated value

CAS # 7784-46-5 DOT 6.1/III NFPA # 3-0-0

25091 500 ML
25092 4 L

Specific Gravity 1.000

SODIUM AZIDE, REAGENT (ACS) — ITEM 3512

NaN_3 F.W. 65.01

Assay 99.0%
Loss on drying (at 105 C) 0.1%
Insoluble matter 0.05%
Titrable base 0.05 meq/g

CAS # 26628-22-8 DOT 6.1/II NFPA # 3-1-2

66521 100 G
66522 500 G
66523 2.5 KG

SODIUM BENZOATE, REAGENT — ITEM 1491

$C_6H_5CO_2Na$ F.W. 144.11

Insoluble 0.005%
Sulfate 0.005%
Heavy Metals 0.001%
Chloride 0.01%
Iron 0.001%

CAS # 532-32-1 DOT NR NFPA # 1-0-0

66581 500 G
66582 2.5 KG

SODIUM BICARBONATE, BIO-REFINED™ — ITEM 2552

$NaHCO_3$ F.W. 84.01

Assay (dried basis) 99.7% min.
Insoluble matter 0.01%
Chloride 0.002%
Sulfate 0.003%
Absorption (1M in water) @ 260 nm 0.009
Substances reducing KMnO4 0.005%
pH (1 M in water @ 20 C freshly prepared) 7.5-8.5
Phosphate 0.001%
Ammonium 0.0005%
Absorption (1M in water) @ 280 nm 0.007

Al 10 ppm
Bi 5 ppm
Co 5 ppm
Fe 5 ppm
Mg 50 ppm
Ni 5 ppm
As 0.1 ppm
Ca 50 ppm
Cr 5 ppm
K 50 ppm
Mn 5 ppm
Pb 5 ppm
Ba 5 ppm
Cd 5 ppm
Cu 5 ppm
Li 5 ppm
Mo 5 ppm
Zn 5 ppm

CAS # 144-55-8 DOT NR

66731 500 G
66732 2.5 KG

SODIUM BICARBONATE, REAGENT (ACS) — ITEM 704

Product is a free flowing powder.

$NaHCO_3$ F.W. 84.01

Assay (dried basis) 99.7-100.3%
Chloride 0.003%
Sulfur compounds (as SO4) 0.003%
Calcium 0.02%
Heavy Metals (by ICP-OES) 0.0005%
Potassium 0.005%
Insoluble 0.015%
Phosphate 0.001%
Ammonium 0.0005%
Magnesium 0.005%
Iron 0.001%

CAS # 144-55-8 DOT NR NFPA # 0-0-1

66601 500 G
66602 2.5 KG
66603 10 KG
66604 50 KG

SODIUM BICARBONATE, 99% — ITEM 3646

$NaHCO_3$ F.W. 84.01

Assay 99%

CAS # 144-55-8 DOT NR

66441 500 G
66442 2.5 KG
66443 10 KG

SODIUM BICARBONATE, TECHNICAL, GRANULAR -40 +140 MESH — ITEM 3647

Typically >60% within -40 to +140 mesh.

$NaHCO_3$ F.W. 84.01

Assay 95%
Particle size -40 to +140 mesh

CAS # 144-55-8 DOT NR

66451 2.5 KG
66452 10 KG

SODIUM BICARBONATE, SOLUTION 0.1 M — ITEM 2111

Carbon Dioxide Molarity Standard for Ion Selective Electrodes. 0.1 mol/L

$NaHCO_3$ F.W. 84.01

Concentration 0.1000 ± 0.0005 M

CAS # 144-55-8 DOT NR NFPA # 0-0-0

25101 500 ML

Specific Gravity 1.000

SODIUM BIFLUORIDE, TECHNICAL — ITEM A7137

$NaHF_2$ F.W. 61.99

Assay 97% min.
Iron 0.05%

CAS # 1333-83-1 DOT 8/II

66622 500 G
66623 2.5 KG
66624 10 KG

SODIUM BIPHENYL

See Organic Halogen Reagent

SODIUM BISMUTHATE, REAGENT (ACS) — ITEM 1025

$NaBiO_3$ F.W. 279.97

Assay 80.0% min.
Manganese 0.0005%
Chloride 0.002%
Oxidizing efficiency 99.6% min.

CAS # 12232-99-4 DOT NR NFPA # 2-0-0

66631 25 G
66632 100 G

SODIUM BISULFATE, MONOHYDRATE, REAGENT — ITEM 1026

Sodium Hydrogen Sulfate

$NaHSO_4 \bullet H_2O$ F.W. 138.07

Assay (as H2SO4) 35.0-36.5%
Chloride 0.002%
Phosphate 0.002%
Heavy metals (Pb) 0.0005%
Insoluble and ammonium hydroxide ppt 0.005%
Nitrate 0.005%
Calcium and magnesium 0.01%
Iron 0.001%

CAS # 10034-88-5 DOT 8/III NFPA # 2-0-0

66650 100 G
66651 500 G
66652 2.5 KG
66653 10 KG
66654 50 KG

SODIUM BISULFATE, MONOHYDRATE, TECHNICAL — ITEM 1853

$NaHSO_4 \bullet H_2O$ F.W. 138.07

Assay 91.5% min
Loss on drying 1.0% max
Iron 0.002%
Chloride 0.1%
Sodium sulfate 8.5% max
Insoluble matter 0.05%
Heavy metals 0.0005%

CAS # 10034-88-5 DOT 8/III NFPA # 2-0-0

Please Inquire For Sizes

SODIUM BISULFITE, REAGENT (ACS) — ITEM 3595

Mixture of sodium bisulfite and sodium metabisulfite

$NaHSO_3$

Assay (as SO2) 58.5% min.
Chloride 0.02%
Iron 0.002%
Insoluble matter 0.005%
Heavy metals (as Pb) 0.001%

CAS # 7631-90-5 DOT NR

66751 100 G
66752 500 G
66753 2.5 KG

SODIUM BISULFITE

See Sodium Meta Bisulfite

SODIUM BITARTRATE, MONOHYDRATE, BIO-REFINED™ — ITEM 1940

$NaHC_4H_4O_6 \bullet H_2O$ F.W. 190.09

Assay 99.5% min.
Insoluble matter 0.001%
Chloride (Cl) 0.005%
Absorbance (0.1M in H2O) @ 260 nm <0.008
pH (0.1M in water @ 20 C) 2.5-4.0
Specific rotation +22 ± 1
Sulfate (SO4) 0.005%
Absorbance (0.1M in H2O) @ 280 nm <0.004

Al 5 ppm
Bi 5 ppm
Co 5 ppm
Fe 5 ppm
Mg 5 ppm
Ni 5 ppm
Zn 5 ppm
As 0.1 ppm
Ca 50 ppm
Cr 5 ppm
K 50 ppm
Mn 5 ppm
Pb 5 ppm
Ba 5 ppm
Cd 5 ppm
Cu 5 ppm
Li 5 ppm
Mo 5 ppm
Sr 5 ppm

CAS # 6131-98-2 DOT NR

66612 100 G
66611 500 G

SODIUM BITARTRATE, MONOHYDRATE — ITEM 1686

Sodium Hydrogen Tartrate

$NaHC_4H_4O_6 \bullet H_2O$ F.W. 190.09

Assay 98% min.

CAS # 6131-98-2 DOT NR NFPA # 0-0-0

66643 100 G
66641 500 G
66642 2.5 KG

SODIUM BORATE

See Sodium Tetraborate, Decahydrate

SODIUM BOROHYDRIDE, GRANULAR, REAGENT (ACS) ITEM 1649

$NaBH_4$ F.W. 37.83

Assay 98% min

CAS # 16940-66-2 DOT 4.3/I NFPA # 2-2-3

66541	100 G
66542	500 G
66544	2 KG
66545	6 X 2 KG

SODIUM BOROHYDRIDE, CAPLETS, REAGENT (ACS) ITEM A7158

$NaBH_4$ F.W. 37.83

Assay 98% min.

CAS # 16940-66-2 DOT 4.3/I NFPA # 2-2-3

66661	100 G
66662	500 G

S

SODIUM BROMIDE, REAGENT (ACS) ITEM 1027

NaBr F.W. 102.90

Assay 99.0% min.
pH of 5% solution @ 25 C 5.0-8.8
Chloride 0.2%
Potassium 0.1%
Calcium 0.002%
Heavy Metals (Pb) 0.0005%
Insoluble 0.005%
Bromate 0.001%
Sulfate 0.002%
Barium 0.002%
Magnesium 0.001%
Iron 0.0005%

CAS # 7647-15-6 DOT NR NFPA # 1-0-0

66675	100 G
66671	500 G
66672	2.5 KG
66673	10 KG

SODIUM BROMIDE, 99% ITEM 3650

NaBr F.W. 102.90

Assay 99%

CAS # 7647-15-6 DOT NR NFPA # 1-0-0

66461	100 G
66462	500 G
66463	2.5 KG

SODIUM BROMIDE SOLUTION, 10% W/V ITEM 2114

NaBr F.W. 102.90

Concentration 9.5-10.5% w/v

CAS # 7647-15-6 DOT NR

25131	500 ML
25132	4 L

Specific Gravity 1.080

SODIUM CARBONATE, ANHYDROUS, PRIMARY STANDARD (ACS) ITEM 1698

Na_2CO_3 F.W. 105.99

Assay (dried basis) 99.95-100.05%
Loss on heating at 285 C 1.0%
Phosphate (PO4) 0.001%
Sulfur compounds (as SO4) 0.003%
Iron (Fe) 0.0005%
Calcium 0.02%
Insoluble 0.01%
Chloride (Cl) 0.001%
Silica (SiO2) 0.005%
Heavy Metals (by ICP-OES) 0.0005%
Potassium 0.005%
Magnesium 0.004%

CAS # 497-19-8 DOT NR

66721	100 G
66722	500 G

SODIUM CARBONATE, ANHYDROUS, 99.99% ITEM 7050

Na_2CO_3 F.W. 105.99

Assay (metals basis) 99.99% min.

CAS # 497-19-8 DOT NR

66695	25 G
66696	100 G
66697	500 G

SODIUM CARBONATE, ANHYDROUS, BIO-REFINED™ ITEM 1936

Na_2CO_3 F.W. 105.99

Assay 99.5% min.
pH (1 M in water at 20 C) 11.5 - 12.2
Insoluble matter 0.01%
Total Nitrogen (N) 0.001%
Sulfate (SO4) 0.005%
Substances reducing KMnO4 0.005%
Loss on drying @ 200 C 1.0%
Chloride 0.005%
Phosphate, Silicate (as SiO2) 0.005%
Absorbance (1M in H2O) @ 260 nm </= 0.02

Absorbance (1M in H2O) @ 280 nm </= 0.01

Al 5 ppm
Bi 5 ppm
Co 5 ppm
Fe 5 ppm
Mg 50 ppm
Ni 5 ppm
Zn 5 ppm
As 0.1 ppm
Ca 200 ppm
Cr 5 ppm
K 50 ppm
Mn 5 ppm
Pb 5 ppm
Ba 5 ppm
Cd 5 ppm
Cu 5 ppm
Li 5 ppm
Mo 5 ppm
Sr 5 ppm

CAS # 497-19-8 DOT NR

66681	500 G

SODIUM CARBONATE, ANHYDROUS, POWDER, REAGENT (ACS) ITEM 705

Na_2CO_3 F.W. 105.99

Assay 99.5% min
Loss on heating at 285 C 1.0% max
Phosphate 0.001%
Sulfur compounds (as SO4) 0.003%
Iron 0.0005%
Magnesium 0.005%
Insoluble 0.01%
Chloride 0.001%
Silica 0.005%
Heavy Metals (by ICP-OES) 0.0005%
Calcium 0.03%
Potassium 0.005%

CAS # 497-19-8 DOT NR NFPA # 1-0-1

66701 500 G
66702 2.5 KG
66703 10 KG
66704 50 KG

SODIUM CARBONATE, ANHYDROUS, GRANULAR, REAGENT (ACS) ITEM 3594

Na_2CO_3 F.W. 105.99

Assay (dried basis) 99.5%
Loss on heating at 285 C 1.0%
Phosphate 0.001%
Sulfur cmpds (as SO4) 0.003%
Iron 0.0005%
Magnesium 0.005%
Insoluble matter 0.01%
Chloride 0.001%
Silica 0.005%
Heavy Metals (by ICP-OES) 0.0005%
Calcium 0.03%
Potassium 0.005%

CAS # 497-19-8 DOT NR NFPA # 1-0-1

66741 500 G
66742 2.5 KG
66743 10 KG

SODIUM CARBONATE, MONOHYDRATE, REAGENT (ACS) ITEM 1028

$Na_2CO_3 \bullet H_2O$ F.W. 124.00

Assay 99.5% min.
Loss on drying @ 150 C 13.0-15.0%
Phosphate 0.0005%
Sulfur compounds (as SO4) 0.004%
Iron 0.0005%
Magnesium 0.005%
Insoluble 0.01%
Chloride 0.001%
Silica 0.005%
Heavy Metals (Pb) 0.0005%
Calcium 0.03%
Potassium 0.005%

CAS # 5968-11-6 DOT NR NFPA # 1-0-1

66711 500 G
66712 2.5 KG
66713 10 KG
66714 50 KG

SODIUM CARBONATE, SOLUTION, 1.0 N ITEM 2119

0.5 mol/L

Na_2CO_3 F.W. 105.99

Concentration 1.000 N ± 0.001 N

CAS # 497-19-8 DOT NR

25181 500 ML
25182 4 L

Specific Gravity 1.050

SODIUM CARBONATE, SOLUTION, 0.02 N ITEM 9837

1 ml = 1 mg CaCO3

Na_2CO_3 F.W. 105.99

Concentration 0.0200 ± 0.0010 N

CAS # 497-19-8 DOT NR

20181 1 L

SODIUM CARBONATE SOLUTION, 5% W/V ITEM 2116

Na_2CO_3 F.W. 105.99

Concentration (as Na2CO3) 5.0% w/v

CAS # 497-19-8 DOT NR

25151 500 ML

Specific Gravity 1.050

SODIUM CHLORATE, REAGENT (ACS) ITEM 1029

$NaClO_3$ F.W. 106.44

Assay 99.0% min
Bromate 0.015%
Sulfate 0.001%
Iron 0.0005%
Magnesium 0.002%
Insoluble 0.005%
Chloride 0.005%
Heavy metals (as Pb) 0.001%
Calcium 0.002%
Potassium 0.01%

CAS # 7775-09-9 DOT 5.1/II NFPA # 1-0-3

66780 100 G
66781 500 G
66782 2.5 KG
66783 10 KG
66784 50 KG
66785 136 KG

SODIUM CHLORIDE, 99.999% ITEM A7188

NaCl F.W. 58.44

Assay (metals basis) 99.999% min. Assay (as NaCl) 98% min.

CAS # 7647-14-5 DOT NR NFPA # 1-0-0

66791 25 G
66792 100 G

SODIUM CHLORIDE, 99.995% ITEM 5640

NaCl F.W. 58.44

Assay (metals basis) 99.995% min. Assay (as NaCl) 98% min.

CAS # 7647-14-5 DOT NR

Please Inquire For Sizes

S

SODIUM CHLORIDE, BIO-REFINED™ ITEM 1937

NaCl F.W. 58.44

Assay 99.5% min.
Water <1.0%
Bromide (Br) 0.005%
Total Nitrogen (N) 0.001%
Sulfate (SO4) 0.01%
pH (1M in water @ 20 C) 5.0-8.0
Insoluble matter 0.005%
Iodide (I) 0.001%
Phosphate (PO4) 0.0005%
Absorbance (1M in H2O) @ 260 nm <0.003
Absorbance (1M in H2O) @ 280 nm <0.002

CAS # 7647-14-5 DOT NR

66831 500 G

SODIUM CHLORIDE, REAGENT (ACS) ITEM 657

NaCl F.W. 58.44

Assay 99.0% min.
pH of 5% solution 5.0-9.0 @ 25 C
Bromide 0.01%
Phosphate 0.0005%
Barium - pass test
Iron 0.0002%
Magnesium 0.001%
Insoluble 0.005%
Iodide 0.002%
Chlorate and nitrate (as NO3) 0.003%
Sulfate 0.004%
Heavy Metals (by ICP-OES) 0.0005%
Calcium 0.002%
Potassium 0.005%

CAS # 7647-14-5 DOT NR NFPA # 1-0-0

66801 500 G
66802 2.5 KG
66803 10 KG
66804 50 KG
66805 136 KG

S

SODIUM CHLORIDE, +80 MESH ITEM 3639

NaCl F.W. 58.44

Assay 98% min.
Particle size on 80 mesh screen 90% min.

CAS # 7647-14-5 DOT NR NFPA # 1-0-0

66471 500 G
66472 2.5 KG
66473 10 KG

SODIUM CHLORIDE-HYDROXYLAMINE SULFATE SOLUTION ITEM 2124

APHA for Metals

Suitability for metals (APHA) Pass Test

DOT NR NFPA # 1-0-0

25231 100 ML
25232 500 ML

Specific Gravity 1.100

SODIUM CHLORITE, 80% TECHNICAL ITEM 2456

$NaClO_2$ F.W. 90.44

Assay 75-80%
Loss on drying (105C) Report

CAS # 7758-19-2 DOT 5.1/II

83911 500 G
83912 2.5 KG

SODIUM CHROMATE, TETRAHYDRATE, REAGENT ITEM 1078

$Na_2CrO_4 \cdot 4H_2O$ F.W. 234.04

Assay 99.0-103.5%
pH of 5% solution 8.0-9.5
Sulfate 0.01%
Calcium 0.005%
Insoluble 0.005%
Chloride 0.005%
Aluminum 0.002%

CAS # 10034-82-9 DOT 6.1/III NFPA # 4-0-2

66823 100 G
66821 500 G
66822 2.5 KG

SODIUM CITRATE, DIHYDRATE, REAGENT (ACS) ITEM 800

$HOC(COONa)(CH_2COONa)_2 \cdot 2H_2O$ F.W. 294.10

Assay 99.0% min
Chloride 0.003%
Ammonia 0.003%
Iron 0.0005%
pH of 5% solution 7.0-9.0 @ 25 C
Insoluble 0.005%
Sulfate 0.005%
Calcium 0.005%
Heavy metals (as Pb) 0.0005%

CAS # 6132-04-3 DOT NR NFPA # 0-0-0

66841 500 G
66842 2.5 KG
66843 10 KG
66844 50 KG

SODIUM COBALTINITRITE, REAGENT (ACS) ITEM 290

$Na_3Co(NO_2)_6$ F.W. 403.93

Insoluble 0.02%
Suitability for potassium determination -Pass test

CAS # 13600-98-1 DOT 5.1/III NFPA # 1-0-0

66851 100 G
66852 500 G

SODIUM CYANATE, TECHNICAL ITEM A7206

NaOCN F.W. 65.01

Assay 90% min.

CAS # 917-61-3 DOT NR

66881 500 G
66882 2.5 KG

SODIUM DICHROMATE, DIHYDRATE, REAGENT (ACS) ITEM 801

$Na_2Cr_2O_7 \cdot 2H_2O$ F.W. 298.01

Assay 99.5-100.5%
Chloride 0.005%
Calcium 0.003%
Potassium 0.01%
Insoluble 0.005%
Sulfate 0.01%
Magnesium 0.005%
Aluminum 0.002%

CAS # 7789-12-0 DOT 6.1/II NFPA # 3-0-1

66875 100 G
66871 500 G
66872 2.5 KG

SODIUM DICYANAMIDE — ITEM 5376

$NaN(CN)_2$ F.W. 89.03

Assay 96%

CAS # 1934-75-4 DOT NR

Please Inquire For Sizes

SODIUM DIHYDROGEN PHOSPHATE

See Sodium Phosphate, Monobasic, Monohydrate

SODIUM DIMETHYLGLYOXIME, OCTAHYDRATE — ITEM 169

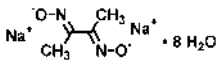
Organic precipitant

$(CH_3CNONa)_2 \bullet 8H_2O$ F.W. 304.21

Sensitivity to nickel - pass test
5% H2O solution - Colorless to faint yellow
5% H2O solution -
Clear to slightly hazy solution

CAS # 60908-54-5 DOT NR

67001	100 G
67002	500 G



SODIUM DIPHENYLAMINE SULFONATE, REAGENT (ACS) — ITEM 170

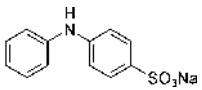
Oxidation-reduction indicator

$C_6H_5NHC_6H_4SO_3Na$ F.W. 271.27

Clarity of a 0.3% solution (H2O) - Pass test
Sensitivity - Pass test
Appearance - Off-white to tan/grey powder

CAS # 6152-67-6 DOT NR NFPA # 2-1-1

67201	5 G
67203	25 G
67204	100 G



SODIUM DIPHENYLAMINE SULFONATE, 0.005 M SOLUTION IN WATER — ITEM 171

0.005 mol/L. Oxidation-reduction indicator.

$C_6H_5NHC_6H_4SO_3Na$

Suitability Pass test

CAS # 6152-67-6 DOT NR NFPA # 2-1-1

67211 500 ML

Specific Gravity 1.000

SODIUM DITHIONITE

See Sodium Hydrosulfite

SODIUM DODECYL SULFATE, REAGENT (ACS) — ITEM 2288

Sodium Lauryl Sulfate

$CH_3(CH_2)_{11}SO_4Na$ F.W. 288.38

Assay 99.0% min. (dried basis)
Absorbance of 3% solution 0.1
Titrable base 0.06 meq/g
Unsulfated alcohol 4.0% max
Fatty alcohols (as C12H25OH) 96.0% min.
Loss on drying @105 C 1.0%
Heavy metals 0.002%

CAS # 151-21-3 DOT 4.1/III

67231	100 G
67232	500 G
67233	2.5 KG

SODIUM ETHOXIDE, 20% in DENATURED ETHYL ALCOHOL — ITEM 2762

CH_3CH_2ONa F.W. 68.05

Assay 20% min.

CAS # 141-52-6 DOT 3/8/II

67301	100 ML
67302	500 ML

Specific Gravity 0.868

SODIUM ETHYLENEDIAMINETETRAACETATE

See Disodium Dihydrogen Ethylenediaminetetraacetate Dihydrate

SODIUM FERRIC EDTA

See Ferric Sodium Ethylenediaminetetraacetate

SODIUM FLUORESCEIN

See Fluorescein, Disodium Salt

SODIUM FLUORIDE, 99.9% — ITEM A7248

NaF F.W. 41.99

Assay (metals basis) 99.9% min

CAS # 7681-49-4 DOT 6.1/III NFPA # 3-0-1

67341 25 G

S

SODIUM FLUORIDE, REAGENT (ACS) ITEM 1031

NaF F.W. 41.99

Assay 99% min.
Loss on drying @ 150 C 0.3%
Titrable acid 0.03 meq/g
Sodium fluosilicate 0.1%
Sulfite 0.005%
Iron 0.003%
Insoluble 0.02%
Chloride 0.005%
Titrable base 0.01 meq/g
Sulfate 0.03%
Heavy metals (as Pb) 0.003%
Potassium 0.02%

CAS # 7681-49-4 DOT 6.1/III NFPA # 3-0-1

67355	100 G
67351	500 G
67352	2.5 KG
67353	10 KG

SODIUM FLUORIDE, TECHNICAL ITEM 9825

NaF F.W. 41.99

Assay 99% min.
Loss on drying @ 150 C 0.3%
Titrable acid 0.03 - report
Sodium fluosilicate - report
Sulfite - report
Iron - report
Insoluble 0.02%
Chloride - report
Titrable base 0.01 - report
Sulfate - report
Heavy metals (as Pb) - report
Potassium - report

CAS # 7681-49-4 DOT 6.1/III

20191	500 G
20192	2.5 KG
20193	10 KG

S

SODIUM FLUORIDE, SOLUTION, 0.1 M ITEM 2128

Fluoride molarity standard. 0.1 mol/L

NaF F.W. 41.99

Concentration 0.100 ± 0.001 M

CAS # 7681-49-4 DOT NR

25271	500 ML

Specific Gravity 1.000

SODIUM FLUOROALUMINATE

See Sodium Hexafluoroaluminate

SODIUM FLUOROBORATE

See Sodium Tetrafluoroborate

SODIUM FLUOROPHOSPHATE

See Sodium Hexafluorophosphate, 98%

SODIUM FLUOROSILICATE

See Sodium Silicofluoride

SODIUM FORMATE, REAGENT (ACS) ITEM 619

HCOONa F.W. 68.01

Assay 99.0% min.
Chloride 0.001%
Calcium 0.005%
Iron 0.0005%
Insoluble 0.005%
Sulfate 0.001%
Heavy Metals (as Pb) 0.0005%

CAS # 141-53-7 DOT NR NFPA # 1-0-0

67401	500 G
67402	2.5 KG
67403	10 KG
67404	50 KG

SODIUM GLUCONATE, REAGENT ITEM 1492

$HOCH_2(CH(OH))_4CO_2Na$ F.W. 218.14

Assay 98%
Iron 0.001%
Chloride 0.01%
Sulfate 0.005%
Heavy metals (as Pb) 0.001%
Insoluble 0.005%

CAS # 527-07-1 DOT NR

67411	500 G

SODIUM 1-HEPTANESULFONATE, MONOHYDRATE ITEM 5457

For ion pair chromatography

$CH_3(CH_2)_6SO_3Na•H_2O$ F.W. 220.26

Assay 99% min. Suitability for ion chromatography - Pass test

CAS # 207300-90-1 DOT NR

16261	5 G
16262	25 G
16263	100 G

SODIUM HEXAFLUOROALUMINATE, TECHNICAL ITEM A7272

Cryolite

Na_3AlF_6 F.W. 209.94

CAS # 13775-53-6 DOT 6.1/II

67452	100 G
67451	500 G

SODIUM HEXAFLUOROPHOSPHATE, 98% ITEM A7290

$NaPF_6$ F.W. 167.95

CAS # 21324-39-0 DOT 6.1/III

67482	10 G
67481	50 G
67483	250 G

SODIUM HEXAFLUOROSILICATE

See Sodium Silicofluoride

SODIUM HEXAMETAPHOSPHATE, 99% ITEM A7302

$(NaPO_3)_6$ F.W. 611.78

Assay (metals basis) 99% min.

CAS # 10124-56-8 DOT NR NFPA # 1-0-0

67551	500 G
67552	2.5 KG

SODIUM 1-HEXANESULFONATE, MONOHYDRATE ITEM 5458

For ion pair chromatography

$CH_3(CH_2)_5SO_3Na•H2O$ F.W. 206.24

Assay 99% min. Suitable for ion pair chromatography - Pass test

CAS # 207300-91-2 DOT NR

16271	5 G
16272	25 G
16273	100 G

SODIUM HYDROGEN CARBONATE

See Sodium Bicarbonate

SODIUM HYDROGEN FLUORIDE

See Sodium Bifluoride

SODIUM HYDROGEN PHOSPHATE

See Sodium Phosphate, Dibasic

SODIUM HYDROGEN SULFATE

See Sodium Bisulfate, Monohydrate

SODIUM HYDROGEN TARTRATE

See Sodium Bitartrate, Monohydrate

SODIUM HYDROSULFIDE, HYDRATE ITEM 3574

$NaSH•xH_2O$ F.W. 56.06

Assay (as NaHS) 60%

CAS # 16721-80-5 DOT 8/II NFPA # 3-2-1

67591	250 G
67592	1 KG

SODIUM HYDROSULFITE, PURIFIED ITEM 558

Sodium Dithionite

$Na_2S_2O_4$ F.W. 174.11

Assay - report only

CAS # 7775-14-6 DOT 4.2/II NFPA # 1-3-3

67601	500 G
67602	2.5 KG
67603	10 KG
67604	50 KG

SODIUM HYDROXIDE, REAGENT (ACS) ITEM 630

Pellets

NaOH F.W. 40.00

Assay 97.0% min
Chloride 0.005%
Phosphate 0.001%
Heavy metals (as Ag) 0.002%
Mercury 0.00001%
Calcium 0.005%
Potassium 0.02%
Sodium carbonate 1.0% max
Nitrogen compounds (N) 0.001%
Sulfate 0.003%
Iron 0.001%
Nickel 0.001%
Magnesium 0.002%

CAS # 1310-73-2 DOT 8/II NFPA # 3-0-2

67801	500 G
67802	2.5 KG
67803	10 KG
67805	25 KG
67804	50 KG

SODIUM HYDROXIDE, SOLUTION, 10 N ITEM 1579

32% NaOH by wt. (Low Nitrogen grade for Kjeldahl) 10 mol/L

NaOH F.W. 40.00

Concentration 10.0 ± 0.5 N Nitrogen compounds (as N) 0.0005%

CAS # 1310-73-2 DOT 8/II NFPA # 3-0-2

67872	4 L
67873	20 L

Specific Gravity 1.328

SODIUM HYDROXIDE, SOLUTION, 5 N ITEM 1551

5 mol/L

NaOH F.W. 40.00

Concentration 5.00 ± 0.01 N

CAS # 1310-73-2 DOT 8/II NFPA # 3-0-2

67841	4 L
67842	4 X 4 L

Specific Gravity 1.190

S

SODIUM HYDROXIDE, SOLUTION, 2 N ITEM 1573

2 mol/L

NaOH F.W. 40.00

Concentration 2.00 ± 0.01 N

CAS # 1310-73-2 DOT 8/II NFPA # 3-0-2

67861 4 L
67862 4 X 4 L
67863 20 L

Specific Gravity 1.090

SODIUM HYDROXIDE, SOLUTION, 1.0 N ITEM 1193

1 mol/L

NaOH F.W. 40.00

Concentration 1.000 ± 0.001 N

CAS # 1310-73-2 DOT 8/III NFPA # 3-0-2

67834 1 L
67835 6 X 1 L
67831 4 L
67832 4 X 4 L
67833 20 L

Specific Gravity 1.040

S

SODIUM HYDROXIDE, SOLUTION, 0.5 N ITEM 1192

0.5 mol/L

NaOH F.W. 40.00

Concentration 0.500 ± 0.001 N

CAS # 1310-73-2 DOT 8/III NFPA # 3-0-2

67824 1 L
67821 4 L
67822 4 X 4 L
67823 20 L

Specific Gravity 1.020

SODIUM HYDROXIDE, SOLUTION, 0.2 N ITEM 2198

0.2 mol/L

NaOH F.W. 40.00

Concentration 0.2000 ± 0.0005 N

CAS # 1310-73-2 DOT 8/III NFPA # 3-0-2

67891 4 L
67892 20 L

Specific Gravity 1.010

SODIUM HYDROXIDE, SOLUTION, 0.1 N ITEM 1191

0.1 mol/L

NaOH F.W. 40.00

Concentration 0.1000 ± 0.0005 N NIST Traceable

CAS # 1310-73-2 DOT NR NFPA # 2-0-1

67815 1 L
67816 6 X 1 L
67811 4 L
67812 4 X 4 L
67813 20 L

Specific Gravity 1.030

SODIUM HYDROXIDE, SOLUTION, 0.05 N ITEM 2172

0.05 mol/L

NaOH F.W. 40.00

Concentration 0.0500 ± 0.0002 N

CAS # 1310-73-2 DOT NR

67881 4 L
67882 4 X 4 L

Specific Gravity 1.000

SODIUM HYDROXIDE, SOLUTION, 0.02 N ITEM 2133

0.02 mol/L

NaOH F.W. 40.00

Concentration 0.0200 ± 0.0005 N

CAS # 1310-73-2 DOT NR

25321 4 L

Specific Gravity 1.000

SODIUM HYDROXIDE, SOLUTION, 0.1 N, in ETHANOL ITEM 2291

0.1 mol/L

NaOH F.W. 40.00

Normality 0.100 N ± 0.001 N

DOT 3/II

67780 1 L
67781 4 L

Specific Gravity 0.790

SODIUM HYDROXIDE SOLUTION, 50% W/W, REAGENT GRADE — ITEM 2131

NaOH F.W. 40.00

Assay 48-52% NaOH
Sodium carbonate 1.0%
Nitrogen compounds (N) 0.001%
Heavy metals (as Ag) 0.002%
Iron 0.001%
Potassium 0.02%
Magnesium 0.002%
Specific gravity >1.5
Sulfate 0.003%
Phosphate 0.001%
Nickel 0.001%
Mercury 0.00001%
Calcium 0.005%

CAS # 1310-73-2 DOT 8/II NFPA # 3-0-2

25301 4 L
25302 20 L

Specific Gravity 1.520

SODIUM HYDROXIDE SOLUTION, 50% W/W — ITEM 2130

Suitable for Kjeldahl use.

NaOH F.W. 40.00

Specific gravity >1.5
Assay 48-52% NaOH
Nitrogen compounds (N) 0.0005%

CAS # 1310-73-2 DOT 8/II NFPA # 3-0-2

25291 4 L
25293 4 X 4 L
25292 20 L

Specific Gravity 1.520

SODIUM HYDROXIDE SOLUTION, 40% W/W — ITEM 5609

NaOH F.W. 40.00

Concentration 38-42%

CAS # 1310-73-2 DOT 8/II

19171 1 L
19172 4 L

Specific Gravity 1.430

SODIUM HYDROXIDE SOLUTION, 25% W/W — ITEM 2129

Reagent Grade

NaOH F.W. 40.00

Concentration 24.5-25.5%
Chloride as Sodium Chloride 0.6%
Density (20 C) >1.27 g/ml
Carbonate 1% (w/w)
Iron 5 ppm
Clear to slightly turbid solution

CAS # 1310-73-2 DOT 8/II

25281 4 L
25282 20 L

Specific Gravity 1.270

SODIUM HYDROXIDE SOLUTION, 10% — ITEM 1989

NaOH F.W. 40.00

Assay 10.0% ± 0.5% by wt.

CAS # 1310-73-2 DOT 8/II NFPA # 3-0-2

67922 4 L

Specific Gravity 1.109

SODIUM HYDROXIDE-THIOSULFATE SOLUTION — ITEM 2134

Reagent for Organic Nitrogen-APHA

Suitability - Pass Test

DOT 8/II

25331 4 L

Specific Gravity 1.530

SODIUM HYPOCHLORITE SOLUTION, 10-13% AVAILABLE CHLORINE — ITEM 5285

NaOCl F.W. 74.44

Assay (as available chlorine) 10-13%

CAS # 7681-52-9 DOT 8/II

16661 500 ML
16662 4 L

Specific Gravity 1.200

SODIUM HYPOCHLORITE SOLUTION, 5% AVAILABLE CHLORINE, REAGENT (ACS) — ITEM 2763

NaOCl F.W. 74.44

Assay (available chlorine) 5.0% min. Sodium hydroxide 2.5% max.

CAS # 7681-52-9 DOT 8/II

67911 100 ML
67912 500 ML
67913 4 L
67914 4 X 4 L

Specific Gravity 1.100

SODIUM HYPOPHOSPHITE, MONOHYDRATE, REAGENT — ITEM 1194

$NaH_2PO_2 \bullet H_2O$ F.W. 105.99

Assay 98%
Chloride 0.01%
Heavy Metals (Pb) 0.0005%
Insoluble 0.01%
Sulfate 0.02%
Iron 0.0005%

CAS # 10039-56-2 DOT NR

67905 100 G
67901 500 G
67902 2.5 KG
67903 10 KG
67904 50 KG

S

SODIUM HYPOSULFITE

See Sodium Thiosulfate, Pentahydrate

SODIUM IODATE, REAGENT — ITEM 89

$NaIO_3$ F.W. 197.92

Assay 99.7-100.3%
pH of 5% solution 5.0-8.0
Iodide 0.001%
Sulfate 0.005%
Potassium 0.05%
Insoluble 0.005%
Other Halogens (Cl) 0.01%
Nitrogen compounds 0.005%
Heavy Metals (Pb) 0.0005%
Iron 0.001%

CAS # 7681-55-2 DOT 5.1/II NFPA # 2-0-3

68001	100 G
68002	500 G
68003	2.5 KG
68004	10 KG
68005	50 KG

SODIUM IODIDE, REAGENT (ACS) — ITEM 1033

NaI F.W. 149.89

Assay 99.5% min.
pH of 5% solution 6.0-9.0
Iodate 0.0003%
Sulfate 0.005%
Heavy metals (as Pb) 0.0005%
Calcium 0.002%
Potassium 0.01%
Insoluble 0.01%
Chloride and Bromide 0.01%
Phosphate 0.001%
Barium 0.002%
Iron 0.0005%
Magnesium 0.001%

CAS # 7681-82-5 DOT NR NFPA # 1-0-1

68031	100 G
68032	500 G
68033	2.5 KG
68034	10 KG

SODIUM LAURYL SULFATE

See Sodium Dodecyl Sulfate

SODIUM META BISULFITE, REAGENT (ACS) — ITEM 802

$Na_2S_2O_5$ F.W. 190.10

Assay 97.0% min
Chloride 0.05%
Iron 0.002%
Insoluble 0.005%
Thiosulfate 0.05%
Heavy metals (as Pb) 0.001%

CAS # 7681-57-4 DOT NR NFPA # 2-0-1

68101	500 G
68102	2.5 KG
68104	25 KG

SODIUM META NIOBATE, 99.9% — ITEM A7344

$NaNbO_3$ F.W. 163.90

CAS # 12034-09-2 DOT NR

68121	25 G

SODIUM META PERIODATE, BIO-REFINED™ — ITEM 1943

$NaIO_4$ F.W. 213.92

Assay 99.5% min.
Loss on drying @ 105 C 0.1%
Bromide, Bromate, Chloride, Chlorate (as Cl) 0.01%
Sulfate (SO4) 0.005%
pH of 0.5 M solution 3.5-5.5
Insoluble matter 0.01%
Nitrite (NO2) 0.001%
Absorbance (0.5M in H2O) cutoff @ 350nm

Al 5 ppm
Ca 10 ppm
Cr 5 ppm
K 50 ppm
Mn 5 ppm
Pb 5 ppm
Ba 5 ppm
Cd 5 ppm
Cu 5 ppm
Li 5 ppm
Mo 5 ppm
Sr 5 ppm
Bi 5 ppm
Co 5 ppm
Fe 5 ppm
Mg 5 ppm
Ni 5 ppm
Zn 5 ppm

CAS # 7790-28-5 DOT 5.1/II

68912	25 G
68911	100 G

SODIUM META PERIODATE, REAGENT (ACS) — ITEM 93

$NaIO_4$ F.W. 213.92

Assay (dried basis) 99.8-100.3%
Insoluble in dil. HNO3 0.01%
Loss on drying @ 70 C 0.1%
Other Halogens (Cl) 0.02%
Manganese 0.0003%

CAS # 7790-28-5 DOT 5.1/II NFPA # 1-0-3

68901	25 G
68902	100 G
68903	500 G
68904	2.5 KG
68905	10 KG
68906	50 KG

SODIUM META SILICATE, NONAHYDRATE, REAGENT — ITEM A7353

$Na_2SiO_3 \bullet 9H_2O$ F.W. 284.20

Assay (as Na2SiO3) 41.9-44.0%
Sulfate 0.005%
Iron 0.005%
Chloride 0.01%
Heavy Metals 0.001%

CAS # 13517-24-3 DOT 8/III

68131	100 G
68132	500 G

SODIUM META VANADATE, 99.5% — ITEM 1497

$NaVO_3$ F.W. 121.93

Asssay (metals basis) 99.5%
Assay (as NaVO3) 97%

CAS # 13718-26-8 DOT 6.1/III NFPA # 3-0-0

69161	50 G

SODIUM METHOXIDE, 0.5M METHANOLIC SOLUTION, REAGENT (ACS) ITEM 2412

Sodium Methylate

CH_3ONa F.W. 54.02

Concentration 0.48 - 0.52 M Clarity of solution - passes test

CAS # 124-41-4 DOT 3/8/II

88291 50 ML
88292 250 ML

Specific Gravity 0.810

SODIUM METHOXIDE, 25% in METHYL ALCOHOL ITEM 2764

CH_3ONa F.W. 54.02

Assay 24-26%

CAS # 124-41-4 DOT 3/8/II

68111 100 ML
68112 500 ML
68113 2 L

Specific Gravity 0.945

SODIUM METHYLATE

See Sodium Methoxide, 0.5M Methanolic Solution

SODIUM MOLYBDATE, ANHYDROUS, REAGENT ITEM 1672

Na_2MoO_4 F.W. 205.91

Assay 99% min.
Chloride 0.01%
Sulfate 0.02%
Iron 0.001%
Insoluble 0.01%
Phosphate 0.0005%
Heavy Metals (Pb) 0.001%

CAS # 7631-95-0 DOT NR NFPA # 1-0-0

68162 100 G
68161 500 G

SODIUM MOLYBDATE, DIHYDRATE, REAGENT (ACS) ITEM 1034

$Na_2MoO_4 \bullet 2H_2O$ F.W. 241.95

Assay 99.5-103.0%
pH of 5% solution 7.0-10.5 @ 25 C
Phosphate 0.0005%
Ammonium 0.001%
Iron 0.001%
Insoluble 0.005%
Chloride 0.005%
Sulfate 0.015%
Heavy Metals (Pb) 0.0005%

CAS # 10102-40-6 DOT NR NFPA # 1-0-0

68151 100 G
68152 500 G
68153 2.5 KG
68154 10 KG
68155 50 KG

SODIUM M-PERIODATE

See Sodium Meta Periodate

SODIUM NIOBATE

See Sodium Meta Niobate, 99.9%

SODIUM NITRATE, 99.999% ITEM 5070

$NaNO_3$ F.W. 84.99

Assay (metals basis) 99.999% min.

CAS # 7631-99-4 DOT 5.1/III NFPA # 1-0-3

87661 5 G
87662 50 G

SODIUM NITRATE, BIO-REFINED™ ITEM 1942

$NaNO_3$ F.W. 84.99

Assay 99.5% min.
Insoluble matter 0.005%
Chloride (Cl) 0.0005%
Nitrite (NO2) 0.001%
Sulfate (SO4) 0.001%
pH (1M in water @ 20 C) 5.5-8.0
Ammonium (NH4) 0.002%
Iodate (IO3) 0.0005%
Phosphate (PO4) 0.0002%
Absorbance cutoff @ 328nm (1M in H2O)

Al 5 ppm
Bi 5 ppm
Co 5 ppm
Fe 2 ppm
Mg 5 ppm
Ni 5 ppm
Zn 5 ppm
As 0.1 ppm
Ca 10 ppm
Cr 5 ppm
K 50 ppm
Mn 5 ppm
Pb 5 ppm
Ba 5 ppm
Cd 5 ppm
Cu 5 ppm
Li 5 ppm
Mo 5 ppm
Sr 5 ppm

CAS # 7631-99-4 DOT 5.1/III

68211 500 G

SODIUM NITRATE, LOW CHLORIDE ITEM 6581

ACS reagent material meeting low chloride spec.

$NaNO_3$ F.W. 84.99

Assay 99.0% min.
pH of 5% Solution 5.5-8.3
Iodate 0.0005%
Phosphate 0.0005%
Calcium 0.005%
Heavy Metals (as Pb) 0.0005%
Insoluble 0.005%
Chlorine(Total) 0.0001%
Nitrite 0.001%
Sulfate 0.003%
Magnesium 0.002%
Iron 0.0003%

CAS # 7631-99-4 DOT 5.1/III

68221 500 G
68222 2.5 KG
68223 10 KG
68224 50 KG

S

SODIUM NITRATE, REAGENT (ACS) ITEM 658

$NaNO_3$ F.W. 84.99

Assay 99.0% min.
Insoluble 0.005%
Iodate 0.0005%
Phosphate 0.0005%
Calcium 0.005%
Heavy Metals (by ICP-OES) 0.0005%
pH of 5% solution 5.5-8.3 @ 25 C
Chloride 0.001%
Nitrite 0.001%
Sulfate 0.003%
Magnesium 0.002%
Iron 0.0003%

CAS # 7631-99-4 DOT 5.1/III NFPA # 1-0-3

68201	500 G
68202	2.5 KG
68203	10 KG
68204	50 KG
68205	136 KG
68206	544 KG
68207	1088 KG

SODIUM NITRATE, SOLUTION, 5 M ITEM 2137

ISA Adjuster for Chloride Specific Ion Electrodes. 5 mol/L

$NaNO_3$ F.W. 84.99

Concentration 5.0 M ± 0.2 M

CAS # 7631-99-4 DOT NR

25361	500 ML

Specific Gravity 1.260

S

SODIUM NITRITE, REAGENT (ACS) ITEM 559

$NaNO_2$ F.W. 69.00

Assay 97.0% min.
Sulfate 0.01%
Heavy metals (as Pb) 0.001%
Potassium 0.005%
pH of 5% solution 5.5-8.3 @ 25 C
Chloride 0.005%
Calcium 0.01%
Iron 0.001%
Insoluble 0.01%
Appearance - White to pale yellow

CAS # 7632-00-0 DOT 5.1/6/III NFPA # 2-0-3

68300	100 G
68301	500 G
68302	2.5 KG
68303	10 KG
68304	50 KG
68306	136 KG

SODIUM NITRITE, SOLUTION, 0.1 M ITEM 2139

Nitrite Molarity Standard for Ion-selective Electrodes. 0.1 mol/L

$NaNO_2$ F.W. 69.00

Concentration 0.1000 ± 0.0002 M

CAS # 7632-00-0 DOT NR

25381	500 ML

Specific Gravity 1.000

SODIUM NITROFERRICYANIDE, DIHYDRATE, REAGENT (ACS) ITEM A7395

$Na_2Fe(CN)_5NO•2H_2O$ F.W. 297.95

Assay 99.0-102.0%
Chloride 0.02%
Insoluble 0.01%
Sulfate - pass test

CAS # 13755-38-9 DOT 6.1/II NFPA # 3-0-0

68402	50 G
68401	250 G

SODIUM 1-OCTANESULFONATE, MONOHYDRATE ITEM 5459

For ion pair chromatography

$CH_3(CH_2)_7SO_3Na•H_2O$ F.W. 234.29

Assay 99% min.
Suitability for ion chromatography - Pass test

CAS # 207596-29-0 DOT NR

16281	5 G
16282	25 G
16283	100 G

SODIUM OXALATE, CERTIFIED, PRIMARY STANDARD ITEM 90

$Na_2C_2O_4$ F.W. 134.00

Assay 99.95-100.05%
Loss on drying (105 C) 0.01%
Chloride 0.002%
Heavy Metals 0.002%
Ammonium 0.002%
Insoluble 0.005%
Neutrality - pass ACS test
Sulfate 0.002%
Iron 0.001%
Potassium 0.005%
Substances darkened by hot H2SO4 - pass ACS test

CAS # 62-76-0 DOT NR NFPA # 3-0-1

68501	100 G
68502	500 G

SODIUM OXALATE, REAGENT (ACS) ITEM 1099

$Na_2C_2O_4$ F.W. 134.00

Assay 99.5% min
Loss on drying @ 105 C 0.01%
Chloride 0.002%
Ammonium 0.002%
Iron 0.001%
Insoluble 0.005%
Neutrality - Pass Test
Sulfate 0.002%
Heavy metals (Pb) 0.002%
Potassium 0.005%
Substances darkened by H2SO4 pass test

CAS # 62-76-0 DOT NR NFPA # 3-0-1

68496	100 G
68491	500 G
68492	2.5 KG
68493	10 KG
68494	50 KG

SODIUM PARA PERIODATE, REAGENT — ITEM 94

$Na_3H_2IO_6$ F.W. 293.89

Assay 99% min.
Other Halogens (as Cl) 0.02%
Insoluble in dil. HNO_3 0.01%
Manganese 0.0003%

CAS # 13940-38-0 DOT 5.1/II NFPA # 2-0-3

68941	100 G
68942	500 G
68943	2.5 KG

SODIUM PARA PERIODATE, COMMERCIAL — ITEM 659

$Na_3H_2IO_6$ F.W. 293.89

Assay 95.0% min.

CAS # 13940-38-0 DOT 5.1/II NFPA # 2-0-3

69003	10 KG
69001	50 KG
69002	136 KG

SODIUM 1-PENTANESULFONATE, MONOHYDRATE — ITEM 5460

For ion pair chromatography

$CH_3(CH_2)_4SO_3Na•H_2O$ F.W. 192.21

Assay 99% min.
Suitability for ion chromatography - Pass test

CAS # 207605-40-1 DOT NR

16291	5 G
16292	25 G
16293	100 G

SODIUM PERBORATE, PURIFIED — ITEM A7419

$NaBO_3•4H_2O$ F.W. 153.86

Assay 95% min.

CAS # 10486-00-7 DOT 5.1/III NFPA # 2-0-1

68601	500 G
68602	2.5 KG

SODIUM PERCARBONATE, 10% AVAILABLE OXYGEN — ITEM 3494

Sodium carbonate-hydrogen peroxide adduct.

$2Na_2CO_3•3H_2O_2$ F.W. 314.02

Available oxygen 10.0% min.
pH (1% aqueous) 10.5-10.7

CAS # 15630-89-4 DOT 5.1/II NFPA # 2-0-3

10191	100 G
10192	500 G
10193	2.5 KG

SODIUM PERCHLORATE, ANHYDROUS, REAGENT (ACS) — ITEM 91

$NaClO_4$ F.W. 122.46

Assay 98.0-102.0%
Insoluble 0.005%
Sulfate 0.002%
Iron 0.0005%
Potassium 0.05%
pH of 5% solution 6.0-8.0 @ 25 C
Chloride 0.003%
Calcium 0.02%
Heavy metals (as Pb) 0.0005%

CAS # 7601-89-0 DOT 5.1/II NFPA # 1-0-1

68700	100 G
68701	500 G
68702	2.5 KG
68703	10 KG
68704	50 KG
68705	1,000 KG
68706	5,000 KG

SODIUM PERCHLORATE, MONOHYDRATE, (ACS), HPLC — ITEM 9201

$NaClO_4•H_2O$ F.W. 140.48

Assay 85.0-90.0% as NaClO4
Chloride 0.003%
Calcium 0.02%
Heavy metals (as Pb) 0.0005%
pH of 5% sol. 6.0-8.0 @25 C
Optical abs. (1 M in water) @ 254nm 0.02 max.
Insoluble matter 0.005%
Sulfate 0.002%
Iron 0.0005%
Potassium 0.05%
Optical abs. (1 M in water) @ 300nm 0.01 max.
Optical abs. (1 M in water) @ 220nm 0.08 max.

CAS # 7791-07-3 DOT 5.1/II

68752	100 G
68753	500 G
68754	2.5 KG
68755	10 KG
68751	50 KG

SODIUM PERCHLORATE, MONOHYDRATE, BIO-REFINED™ — ITEM 1950

$NaClO_4•H_2O$ F.W. 140.48

Assay (as NaClO4) 85.0-90.0%
Chloride 0.003%
Heavy Metals (as Pb) 0.0005%
Insoluble 0.005%
Sulfate 0.002%
pH of 5% solution 6.0-8.0 @ 25 C

CAS # 7791-07-3 DOT 5.1/II NFPA # 1-0-1

68762	500 G

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SODIUM PERCHLORATE, MONOHYDRATE, REAGENT (ACS) ITEM 92

$NaClO_4 \bullet H_2O$ F.W. 140.48

Assay (as NaClO4) 85.0-90.0%
Chloride 0.003%
Calcium 0.02%
Heavy metals (as Pb) 0.0005%
pH of 5% solution 6.0-8.0 @ 25 C
Insoluble 0.005%
Sulfate 0.002%
Iron 0.0005%
Potassium 0.05%

CAS # 7791-07-3 DOT 5.1/II NFPA # 1-0-1

68710	100 G
68711	500 G
68712	2.5 KG
68713	10 KG
68714	50 KG
68715	1,000 KG
68716	5,000 KG

SODIUM PERCHLORATE, MONOHYDRATE, COMMERCIAL GRADE ITEM 5603

$NaClO_4 \bullet H_2O$ F.W. 140.48

Assay (as NaClO4) 85% min.
Chloride 0.05%
Sulfate 0.03%
Fluoride 0.001%
Insoluble Matter 0.03%
Chlorate 0.15%
Iron 0.003%

CAS # 7791-07-3 DOT 5.1/II

68738 100 KG

SODIUM PERCHLORATE, SOLUTION, 60% ITEM 3230

$NaClO_4$ F.W. 122.46

Assay (as NaClO4) 58.0-63.5%
Specific Gravity 1.56 - 1.63
pH of 5% solution 6.0-8.0
Chloride 500 ppm

CAS # 7601-89-0 DOT NR

Please Inquire For Sizes

Specific Gravity 1.470

SODIUM PERIODATE

See Sodium Para Periodate
Sodium Meta Periodate

SODIUM PEROXIDE, REAGENT (ACS) ITEM 2413

Na_2O_2 F.W. 77.98

Assay 93.0% min
Phosphate 0.0005%
Heavy Metals (as Pb) 0.002%
Chloride (Cl) 0.002%
Sulfate 0.001%
Iron 0.005%

CAS # 1313-60-6 DOT 5.1/I NFPA # 3-0-1

88301	25 G
88302	100 G
88303	500 G
88304	2.5 KG
88306	50 KG

SODIUM PERRHENATE, 99.99% ITEM A7434

$NaReO_4$ F.W. 273.20

Assay (metals basis) 99.99% min

CAS # 13472-33-8 DOT 5.1/II

69101 5 G

SODIUM PERSULFATE ITEM 3592

$Na_2S_2O_8$ F.W. 238.10

Assay 98%

CAS # 7775-27-1 DOT 5.1/III

69021	500 G
69022	2.5 KG
69023	12 KG

SODIUM PHOSPHATE, DIBASIC, BIO-REFINED™ ITEM 1939

Na_2HPO_4 F.W. 141.96

Assay 99.5% min.
Loss on drying @ 105 deg. C 0.1%
Chloride (Cl) 0.001%
Sulfate (SO4) 0.005%
pH (1M in water @ 20 deg. C) 8.8-9.4
Insoluble matter 0.01%
Total Nitrogen (N) 0.001%
Absorbance (0.5M in H2O) @ 260 nm <0.030
Absorbance (0.5M in H2O) @ 280 nm <0.027

Al 5 ppm
Ca 10 ppm
Cr 5 ppm
K 50 ppm
Mn 5 ppm
Pb 5 ppm
Ba 5 ppm
Cd 5 ppm
Cu 5 ppm
Li 5 ppm
Mo 5 ppm
Sr 5 ppm
Bi 5 ppm
Co 5 ppm
Fe 5 ppm
Mg 5 ppm
Ni 5 ppm
Zn 5 ppm

CAS # 7558-79-4 DOT NR

69111 500 G

SODIUM PHOSPHATE, DIBASIC, ANHYDROUS, REAGENT (ACS) ITEM 734

Suitable for buffer solutions

Na_2HPO_4 F.W. 141.96

Assay 99.0% min
Loss on drying @ 105 C 0.2% max
Chloride 0.002%
Heavy Metals (by ICP-OES) 0.001%
Insoluble 0.01%
pH of 5% solution 8.7-9.3 @ 25 C
Sulfate 0.005%
Iron 0.002%

CAS # 7558-79-4 DOT NR NFPA # 1-0-1

69201	500 G
69202	2.5 KG
69203	10 KG
69204	50 KG

SODIUM PHOSPHATE, DIBASIC, ANHYDROUS, TECHNICAL — ITEM 3648

Na_2HPO_4 F.W. 141.96

Assay 98%

CAS # 7558-79-4 DOT NR

69071	500 G
69072	2.5 KG
69073	10 KG

SODIUM PHOSPHATE, DIBASIC, DIHYDRATE, REAGENT — ITEM 5277

Granular

$Na_2HPO_4 \bullet 2H_2O$ F.W. 177.99

Assay 98.0-105.0
Sulfate 0.2%
Chloride 0.06%
Heavy metals (as Pb) 0.002%

CAS # 10028-24-7 DOT NR NFPA # 1-0-1

14871	100 G
14872	500 G
14873	2.5 KG

SODIUM PHOSPHATE, DIBASIC, HEPTAHYDRATE, REAGENT (ACS) — ITEM 3593

$Na_2HPO_4 \bullet 7H_2O$ F.W. 268.07

Assay 98.0-102.0%
Insoluble matter 0.005%
Sulfate 0.005%
Iron 0.001%
pH (5% solution @ 25 C) 8.7-9.3
Chloride 0.001%
Heavy Metals (by ICP-OES) 0.001%

CAS # 7782-85-6 DOT NR NFPA # 1-0-0

69091	100 G
69092	500 G
69093	2.5 KG

SODIUM PHOSPHATE, MONOBASIC, ANHYDROUS, 99.999% — ITEM 5107

NaH_2PO_4 F.W. 119.98

Assay (metals basis) 99.999% min.
Water (by KF) 1%

CAS # 7558-80-7 DOT NR NFPA # 1-0-1

88031	10 G
88032	50 G

SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE, 99.999% — ITEM A7230

$NaH_2PO_4 \bullet H_2O$ F.W. 137.99

CAS # 10049-21-5 DOT NR NFPA # 1-0-1

69182	5 G
69181	25 G

SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE, BIO-REFINED™ — ITEM 1938

$NaH_2PO_4 \bullet H_2O$ F.W. 137.99

Assay 99% min.
Insoluble matter 0.01%
Sulfate (SO4) 0.005%
Absorbance (1M in H2O) @ 280 nm <0.070
pH (1M in H2O) 4.1-4.5
Chloride (Cl) 0.005%
Absorbance (1M in H2O) @ 260 nm <0.085

Al 5 ppm	Ba 5 ppm	Bi 5 ppm
Ca 10 ppm	Cd 5 ppm	Co 5 ppm
Cr 5 ppm	Cu 5 ppm	Fe 5 ppm
K 50 ppm	Li 5 ppm	Mg 5 ppm
Mn 5 ppm	Mo 5 ppm	Ni 5 ppm
Pb 5 ppm	Sr 5 ppm	Zn 5 ppm

CAS # 10049-21-5 DOT NR NFPA # 1-0-1

69132	100 G
69131	500 G

SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE, REAGENT (ACS) — ITEM 735

$NaH_2PO_4 \bullet H_2O$ F.W. 137.99

Assay 98.0-102.0%
pH of 5% solution 4.1-4.5 @ 25 C
Sulfate 0.003%
Potassium 0.01%
Iron 0.001%
Insoluble matter 0.01%
Chloride 0.0005%
Calcium 0.005%
Heavy Metals (by ICP-OES) 0.001%

CAS # 10049-21-5 DOT NR NFPA # 1-0-1

69250	100 G
69251	500 G
69252	2.5 KG
69253	10 KG
69254	50 KG

SODIUM PHOSPHATE, TRIBASIC, DODECAHYDRATE, REAGENT (ACS) — ITEM 1035

$Na_3PO_4 \bullet 12H_2O$ F.W. 380.12

Assay 98.0-102.0%
Insoluble 0.01%
Sulfate 0.01%
Iron 0.001%
Excess alkali (as NaOH) 2.5%
Chloride 0.001%
Heavy metals (as Pb) 0.001%

CAS # 10101-89-0 DOT NR NFPA # 2-0-1

69231	500 G
69232	2.5 KG
69233	10 KG
69234	50 KG

SODIUM POLYPHOSPHATE — ITEM 3663

crystals

$Na_2O(NaPO_3)_n$

Assay (as P2O5) 65.0-69.0%

CAS # 68915-31-1 DOT NR

69052	500 G
69053	2.5 KG

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SODIUM POTASSIUM TARTRATE

See Potassium Sodium Tartrate

SODIUM P-PERIODATE

See Sodium Para Periodate

SODIUM PROPARGYLATE

See Sodium Propynoate

SODIUM PROPIOLATE

See Sodium Propynoate

SODIUM PROPYNOATE — ITEM 5486

Not on the TSCA inventory.

NaC_3HO_2 F.W. 92.03

Assay 90% min.

CAS # 920-38-7 DOT NR

Please Inquire For Sizes

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SODIUM PYROPHOSPHATE, DECAHYDRATE, REAGENT (ACS) — ITEM 1036

$Na_4P_2O_7 \bullet 10H_2O$ F.W. 446.06

Assay 99.0-103.0%
pH of 5% solution 9.5-10.5 @ 25 C
Sulfate 0.005%
Iron 0.001%
Insoluble 0.01%
Chloride 0.002%
Nitrogen compounds 0.001%
Heavy Metals (Pb) 0.001%

CAS # 13472-36-1 DOT NR NFPA # 1-0-0

69240	100 G
69241	500 G
69242	2.5 KG

SODIUM SALICYLATE, REAGENT — ITEM 1037

$C_6H_4(OH)COONa$ F.W. 160.10

Assay 99.0 - 101.0 %
Chloride 0.02%
Heavy metals (as Pb) 0.005%
Insoluble 0.005%
Sulfate 0.06%

CAS # 54-21-7 DOT NR NFPA # 1-1-1

69265	100 G
69261	500 G
69262	2.5 KG
69263	10 KG

SODIUM SELENITE, ANHYDROUS, REAGENT — ITEM A7476

Na_2SeO_3 F.W. 172.94

Assay 97%
Solubility in dilute acid - Pass test
Selenium content 45.0% min.
Chloride 0.01%

CAS # 10102-18-8 DOT 6.1/II NFPA # 3-0-1

69221	100 G
69222	500 G
69223	2.5 KG

SODIUM SELENITE, 95%, ANHYDROUS — ITEM 3473

Na_2SeO_3 F.W. 172.94

Assay (as sodium selenite) 95%
Selenium content 43%

CAS # 10102-18-8 DOT 6.1/II NFPA # 3-0-1

10040	100 G
10041	500 G
10042	2.5 KG

SODIUM SELENITE, HYDRATE, REAGENT — ITEM 2936

Readily loses water in air.

$Na_2SeO_3 \bullet XH_2O$ F.W. 172.94

Assay (dried basis) 97%
Solubility - Pass test
Carbonate - Pass test
Loss on drying @ 105 C (when manufactured) 34% max
Chloride 0.01%

CAS # 26970-82-1 DOT 6.1/II NFPA # 3-0-1

84891	25 G
84892	100 G
84893	500 G

SODIUM SILICATE

See Sodium Meta Silicate, Nonahydrate

SODIUM SILICOFLUORIDE, REAGENT — ITEM 1038

Na_2SiF_6 F.W. 188.07

Assay (as F) 60.0% min.
Heavy Metals (Pb) 0.005%
Sulfate 0.05%
Iron 0.005%

CAS # 16893-85-9 DOT 6.1/III

69272	100 G
69271	500 G

SODIUM STANNATE, REAGENT — ITEM 1079

$Na_2SnO_3 \bullet 3H_2O$ F.W. 266.71

Assay (as tin) 41.5% min.
Chloride 0.03%
Iron 0.003%
Insoluble 0.02%
Sulfate 0.01%

CAS # 12209-98-2 DOT NR NFPA # 1-0-0

69282	100 G
69281	500 G
69283	2.5 KG

SODIUM SUCCINATE, ANHYDROUS — ITEM 5278

Powder.

$Na_2C_4H_4O_4$ F.W. 162.05

Assay 99.0-102.0%
Heavy metals (as Pb) 0.001%
Loss on drying 1.0%

CAS # 150-90-3 DOT NR

14881	10 G
14882	100 G
14883	500 G

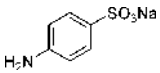
SODIUM SULFANILATE, DIHYDRATE, REAGENT — ITEM 1039

$H_2NC_6H_4SO_3Na \bullet 2H_2O$ F.W. 231.20

Assay 98% min.
Loss on Drying @ 70 C 17% max.

CAS # 6106-22-5 DOT NR NFPA # 1-0-0

69291	100 G
69292	500 G
69293	2.5 KG



SODIUM SULFATE, ANHYDROUS, 99.999% — ITEM A7491

Na_2SO_4 F.W. 142.04

Assay (metals basis) 99.999%
Assay (as Na2SO4) 99.0%

CAS # 7757-82-6 DOT NR NFPA # 0-0-0

69312	5 G
69311	25 G

SODIUM SULFATE, ANHYDROUS, BIO-REFINED™ — ITEM 1944

Na_2SO_4 F.W. 142.04

Assay 99% min.
Loss on ignition at 800 C 0.5%
Chloride (Cl) 0.001%
Phosphate (PO4) 0.002%
Absorbance (1M in H2O) @ 280 nm <0.008
pH (1M in water @ 20 deg. C) 5.0-7.0
Insoluble matter 0.01%
Total Nitrogen (N) 0.0005%
Absorbance (1M in H2O) @ 260 nm <0.011

Al 5 ppm
Bi 5 ppm
Co 5 ppm
Fe 2 ppm
Mg 5 ppm
Ni 5 ppm
Zn 5 ppm
As 1 ppm
Ca 20 ppm
Cr 5 ppm
K 50 ppm
Mn 5 ppm
Pb 5 ppm
Ba 5 ppm
Cd 5 ppm
Cu 5 ppm
Li 5 ppm
Mo 5 ppm
Sr 5 ppm

CAS # 7757-82-6 DOT NR

68341	500 G

SODIUM SULFATE, ANHYDROUS, GRANULAR, REAGENT (ACS) — ITEM 803

Nominally 10-60 mesh.

Na_2SO_4 F.W. 142.04

Assay 99.0% min.
Insoluble matter 0.01%
Chloride 0.001%
Phosphate 0.001%
Magnesium 0.005%
Iron 0.001%
Through 60 mesh screen 10% max.
pH of 5% solution @ 25C 5.2-9.2
Loss on ignition 0.5%
Nitrogen compounds (as N) 0.0005%
Calcium 0.01%
Heavy metals (as Pb) 0.0005%
Potassium 0.01%

CAS # 7757-82-6 DOT NR NFPA # 0-0-0

69301	500 G
69302	2.5 KG
69303	10 KG
69304	50 KG

SODIUM SULFATE, ANHYDROUS, POWDER, REAGENT (ACS) — ITEM 2454

Typically 60-200 mesh.

Na_2SO_4 F.W. 142.04

Assay 99.0% min.
Insoluble matter 0.01%
Chloride 0.001%
Phosphate 0.001%
Magnesium 0.005%
Iron 0.001%
pH of 5% solution @ 25C 5.2-9.2
Loss on ignition 0.5%
Nitrogen compounds (as N) 0.0005%
Calcium 0.01%
Heavy metals (as Pb) 0.0005%
Potassium 0.01%

CAS # 7757-82-6 DOT NR NFPA # 0-0-0

27451	500 G
27452	2.5 KG
27453	10 KG
27454	50 KG

S

SODIUM SULFATE, ANHYDROUS, FINE POWDER, REAGENT (ACS) — ITEM 5279

Typically -200 mesh

Na_2SO_4 F.W. 142.04

Assay 99.0% min.
Insoluble matter 0.01%
Chloride 0.001%
Phosphate 0.001%
Magnesium 0.005%
Iron 0.001%
pH of 5% solution @ 25C 5.2-9.2
Loss on ignition 0.5%
Nitrogen compounds (as N) 0.0005%
Calcium 0.01%
Heavy metals (as Pb) 0.0005%
Potassium 0.01%

CAS # 7757-82-6 DOT NR NFPA # 0-0-0

14891	100 G
14892	500 G
14893	2.5 KG

SODIUM SULFATE, ANHYDROUS — ITEM 3669

Na_2SO_4 F.W. 142.04

Assay 98%

CAS # 7757-82-6 DOT NR

69041	500 G
69042	2.5 KG
69043	10 KG

S

SODIUM SULFATE, DECAHYDRATE, REAGENT (ACS) — ITEM 3596

$Na_2SO_4 \bullet 10H_2O$ F.W. 322.20

Assay 99.0%
Insoluble matter 0.01%
Phosphate 0.0005%
Iron 0.0005%
Magnesium 0.003%
pH (5% solution @ 25 C) 5.2-9.2
Chloride 0.0005%
Heavy Metals (by ICP-OES) 0.0003%
Calcium 0.005%
Potassium 0.005%

CAS # 7727-73-3 DOT NR

69081	100 G
69082	500 G
69083	2.5 KG

SODIUM SULFIDE, NONAHYDRATE, REAGENT (ACS) — ITEM 1040

$Na_2S \bullet 9H_2O$ F.W. 240.18

Assay 98.0% min
Iron Pass test
Appearance Colorless to slightly yellow crystals
Sulfite and Thiosulfate (as SO4) 0.1%
Ammonium 0.005%

CAS # 1313-84-4 DOT 8/II NFPA # 2-2-1

69320	100 G
69321	500 G
69322	2.5 KG
69323	10 KG
69324	50 KG

SODIUM SULFIDE, NONAHYDRATE, PURIFIED — ITEM 5520

$Na_2S \bullet 9H_2O$ F.W. 240.18

Assay 96.0% min.
Iron Pass test
Appearance Colorless to slightly yellow crystals
Sulfite and Thiosulfate (as SO4) 0.3%
Ammonium 0.005%

CAS # 1313-84-4 DOT 8/II NFPA # 2-2-1

17211	500 G
17212	2.5 KG

SODIUM SULFIDE, 90%, TECHNICAL GRADE — ITEM 5666

$Na_2S \bullet 9H_2O$ F.W. 240.18

Assay 90% min.
Appearance - Discolored damp crystals

CAS # 1313-84-4 DOT 8.II

21261	500 G
21262	2.5 KG

SODIUM SULFITE, REAGENT (ACS) — ITEM 804

Na_2SO_3 F.W. 126.04

Assay 98.0% min.
Free acid - pass test
Chloride 0.02%
Heavy Metals 0.001%
Insoluble 0.005%
Titrable free base 0.03 meq/g
Iron 0.001%

CAS # 7757-83-7 DOT NR NFPA # 1-0-1

69331	500 G
69332	2.5 KG
69333	10 KG
69334	50 KG

SODIUM SULFITE, ZERO DISSOLVED OXYGEN SOLUTION — ITEM 5524

0 mg/L dissolved oxygen

Na_2SO_3 F.W. 126.04

Concentration 2.00 ± 0.10 M

CAS # 7757-83-7 DOT NR

20211	500 ML
20212	1 L

SODIUM SULFOXYLATE

See Sodium Hydrosulfite

SODIUM TARTRATE, DIHYDRATE, BIO-REFINED™ — ITEM 1945

$Na_2C_4H_4O_6 \bullet 2H_2O$ F.W. 230.08

Assay 99.5% min.
Loss on drying @ 150 C 15.50-16.00%
Chloride (Cl) 0.005%
Absorbance (0.1M in H2O) @ 260 nm <0.018
pH (0.1M in water @ 20 C) 7.0-8.5
Insoluble matter 0.005%
Sulfate (SO4) 0.005%
Absorbance (0.1M in H2O) @ 280 nm <0.014

Al 5 ppm
Bi 5 ppm
Co 5 ppm
Fe 5 ppm
Mg 5 ppm
Ni 5 ppm
Zn 5 ppm
As 0.1 ppm
Ca 10 ppm
Cr 5 ppm
K 50 ppm
Mn 5 ppm
Pb 5 ppm
Ba 5 ppm
Cd 5 ppm
Cu 5 ppm
Li 5 ppm
Mo 5 ppm
Sr 5 ppm

CAS # 6106-24-7 DOT NR NFPA # 0-0-0

69391 100 G

SODIUM TARTRATE, DIHYDRATE, REAGENT (ACS) — ITEM 805

Suitable as water standard for Karl Fischer determination.

$Na_2C_4H_4O_6 \bullet 2H_2O$ F.W. 230.08

Assay 99.0-101.0%
pH of 5% solution @ 25 C 7.0-9.0
Chloride 0.0005%
Sulfate 0.005%
Calcium 0.01%
Iron 0.001%
Loss on drying @ 150 C 15.61-15.71%
Insoluble matter 0.005%
Phosphate 0.0005%
Ammonium 0.003%
Heavy metals (as Pb) 0.0005%

CAS # 6106-24-7 DOT NR NFPA # 0-0-0

69356 100 G
69351 500 G
69352 2.5 KG
69353 10 KG
69354 50 KG

SODIUM TETRABORATE, ANHYDROUS, REAGENT — ITEM 1692

$Na_2B_4O_7$ F.W. 201.22

Assay 98% min.
Insoluble 0.01%
Chloride 0.002%
Sulfate 0.01%
Iron 0.001%
Water 2% max.
pH of 0.01M solution 9.1-9.2
Phosphate 0.002%
Heavy Metals 0.002%

CAS # 1330-43-4 DOT NR NFPA # 2-0-0

69380 25 G
69381 100 G
69382 500 G

SODIUM TETRABORATE, DECAHYDRATE, REAGENT (ACS) — ITEM 806

$Na_2B_4O_7 \bullet 10H_2O$ F.W. 381.37

Assay 99.5-105.0%
pH of 0.01M solution 9.15-9.20 @ 25 C
Phosphate 0.001%
Calcium 0.005%
Iron 0.0005%
Insoluble 0.005%
Chloride 0.001%
Sulfate 0.005%
Heavy metals (as Pb) 0.001%

CAS # 1303-96-4 DOT NR NFPA # 2-0-0

69371 500 G
69372 2.5 KG
69373 10 KG
69374 50 KG

SODIUM TETRAFLUOROBORATE, TECHNICAL — ITEM A7251

$NaBF_4$ F.W. 109.79

Assay 98% min.

CAS # 13755-29-8 DOT 6.1/III

67371 100 G

SODIUM TETRAPHENYLBORATE

See Sodium Tetraphenylboron

SODIUM TETRAPHENYLBORON, REAGENT (ACS) — ITEM 560

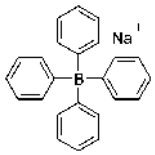
Precipitation reagent for potassium, ammonium, rubidium, cesium, mercury, thallium and organic bases.

$NaB(C_6H_5)_4$ F.W. 342.23

Assay 99.5% min.
Clarity of solution pass test
Loss on drying (105 C) 0.5%

CAS # 143-66-8 DOT 6.1/III NFPA # 2-1-1

69401 5 G
69402 25 G
69403 100 G
69404 1 KG



S

SODIUM THIOCYANATE, REAGENT (ACS) — ITEM 1041

NaSCN F.W. 81.07

Assay 98.0% min.
Carbonate 0.2%
Sulfate 0.01%
Ammonium 0.002%
Iron 0.0002%
Insoluble 0.005%
Chloride 0.01%
Sulfide 0.001%
Heavy Metals (Pb) 0.0005%

CAS # 540-72-7 DOT NR NFPA # 1-0-1

69503	100 G
69501	500 G
69502	2.5 KG

SODIUM THIOCYANATE SOLUTION, 0.1 N — ITEM 2145

0.1 mol/L

NaSCN F.W. 81.07

Concentration 0.1000 ± 0.0002 N

CAS # 540-72-7 DOT NR

25441	500 ML
25442	4 L
25443	4 X 4 L

Specific Gravity 1.000

SODIUM THIOCYANATE SOLUTION, 10% W/V — ITEM 2144

NaSCN F.W. 81.07

ASTM Reagent No. 137

CAS # 540-72-7 DOT NR

25431	500 ML

Specific Gravity 1.050

SODIUM THIOSULFATE, ANHYDROUS — ITEM 2428

$Na_2S_2O_3$ F.W. 158.11

Assay 99% min.
Sulfide 0.0002%
Heavy Metals (as Pb) 0.001%
Calcium 0.01%

CAS # 7772-98-7 DOT NR NFPA # 0-0-1

69581	500 G
69582	2.5 KG

SODIUM THIOSULFATE, PENTAHYDRATE, BIO-REFINED™ — ITEM 1947

$Na_2S_2O_3 \bullet 5H_2O$ F.W. 248.18

Assay 99.5% min.
Insoluble matter 0.005%
Total Nitrogen (N) 0.002%
Sulfide (S) 0.0001%
pH (1M in water @ 20 deg. C) 6.0-7.5
Chloride (Cl) 0.005%
Sulfate (SO4) 0.05%
Absorbance cut off @ 289nm (1M in H2O)

Al 5 ppm	Ba 5 ppm	Bi 5 ppm
Ca 10 ppm	Cd 5 ppm	Co 5 ppm
Cr 5 ppm	Cu 5 ppm	Fe 5 ppm
K 50 ppm	Li 5 ppm	Mg 5 ppm
Mn 5 ppm	Mo 5 ppm	Ni 5 ppm
Pb 5 ppm	Sr 5 ppm	Zn 5 ppm

CAS # 10102-17-7 DOT NR NFPA # 1-0-0

69591	500 G

SODIUM THIOSULFATE, PENTAHYDRATE, REAGENT (ACS) — ITEM 561

$Na_2S_2O_3 \bullet 5H_2O$ F.W. 248.18

Assay 99.5-101.0%
Nitrogen compounds (as N) 0.002%
Sulfide pass test
Insoluble 0.005%
Sulfate and sulfite (as SO4) 0.1%
pH of 5% solution 6.0-8.4

CAS # 10102-17-7 DOT NR NFPA # 1-0-0

69601	500 G
69602	2.5 KG
69603	10 KG
69604	50 KG

SODIUM THIOSULFATE SOLUTION, 1.0 N — ITEM 1195

1.0 mol/L

$Na_2S_2O_3 \bullet 5H_2O$ F.W. 248.18

Concentration 1.000 ± 0.002 N

CAS # 10102-17-7 DOT NR NFPA # 0-0-0

69621	4 L
69622	4 X 4 L

Specific Gravity 1.140

SODIUM THIOSULFATE SOLUTION, 0.5 N — ITEM 2177

0.5 mol/L

$Na_2S_2O_3 \bullet 5H_2O$ F.W. 248.18

Concentration 0.500 ± 0.001 N

CAS # 10102-17-7 DOT NR NFPA # 0-0-0

69641	4 L

Specific Gravity 1.070

SODIUM THIOSULFATE SOLUTION, 0.282 N — ITEM 9271

$Na_2S_2O_3 \cdot 5H_2O$ F.W. 248.18

Concentration 0.282 ± 0.001 N

CAS # 10102-17-7 DOT NR NFPA # 0-0-0

20231 4 L
20232 20 L

SODIUM THIOSULFATE SOLUTION, 0.1 N — ITEM 736

0.1 mol/L

$Na_2S_2O_3 \cdot 5H_2O$ F.W. 248.18

Concentration 0.1000 ± 0.0002 N NIST Traceable

CAS # 10102-17-7 DOT NR NFPA # 0-0-0

69611 4 L
69612 4 X 4 L
69613 20 L

Specific Gravity 1.020

SODIUM THIOSULFATE SOLUTION, 0.05 N — ITEM 2146

0.05 mol/L

$Na_2S_2O_3 \cdot 5H_2O$ F.W. 248.18

Concentration 0.0500 ± 0.0001 N

CAS # 10102-17-7 DOT NR NFPA # 0-0-0

25451 4 L

Specific Gravity 1.010

SODIUM THIOSULFATE SOLUTION, 0.025 N — ITEM 9226

0.025 mol/L

$Na_2S_2O_3 \cdot 5H_2O$ F.W. 248.18

Concentration 0.0250 ± 0.0002 N NIST Traceable

CAS # 10102-17-7 DOT NR NFPA # 0-0-0

20221 4 L

SODIUM THIOSULFATE SOLUTION, 0.01N — ITEM 1559

0.01 mol/L

$Na_2S_2O_3 \cdot 5H_2O$ F.W. 248.18

Concentration 0.0100 ± 0.0001 N

CAS # 10102-17-7 DOT NR NFPA # 0-0-0

69631 4 L

Specific Gravity 1.000

SODIUM TITANATE, 99.9% — ITEM 1496

-200 mesh

$Na_2Ti_3O_7$ F.W. 301.62

CAS # 12034-36-5 DOT NR NFPA # 1-0-0

69150 20 G
69151 100 G

SODIUM TRIFLATE

See Sodium Trifluoromethanesulfonate, 98%

SODIUM TRIFLUOROMETHANESULFONATE, 98% — ITEM 3543

Not on the TSCA inventory

$Na(CF_3SO_3)$ F.W. 172.06

Assay 98%

CAS # 2926-30-9 DOT NR

69671 5 G
69672 25 G

SODIUM TRIMETHOXYBOROHYDRIDE, TECHNICAL — ITEM A7563

Not on the TSCA inventory.

$Na(CH_3O)_3BH$ F.W. 127.91

Assay 80% min.

CAS # 16940-17-3 DOT 4.3/4.1/II

69651 10 G

SODIUM TRIPOLYPHOSPHATE, TECHNICAL — ITEM A7566

$Na_5P_3O_{10}$ F.W. 367.87

Assay 85% min
Arsenic 0.0003%
Heavy metals (as Pb) 0.001%
Insoluble 0.1%
Fluoride 0.005%
Lead 0.0005%

CAS # 7758-29-4 DOT NR NFPA # 1-0-0

69681 500 G
69682 2.5 KG
69683 10 KG

SODIUM TUNGSTATE, DIHYDRATE, REAGENT (ACS) ITEM 707

Folin

$Na_2WO_4 \bullet 2H_2O$ F.W. 329.86

Assay 99.0-101.0%
Titrable free base 0.02 meq/g
Sulfate 0.01%
Heavy metals and Iron (as Pb) 0.001%
Insoluble 0.01%
Chloride 0.005%
Molybdenum 0.001%

CAS # 10213-10-2 DOT NR NFPA # 1-0-0

69701	100 G
69702	500 G
69703	2.5 KG
69704	10 KG

SODIUM TUNGSTATE, DIHYDRATE, TECHNICAL ITEM 9542

$Na_2WO_4 \bullet 2H_2O$ F.W. 329.86

Assay 97% min

CAS # 10213-10-2 DOT NR NFPA # 1-0-0

20241	500 G
20242	2.5 KG
20243	10 KG

S

SODIUM VANADATE

See Sodium Meta Vanadate, 99.5%

SPADNS, REAGENT (ACS) ITEM 1042

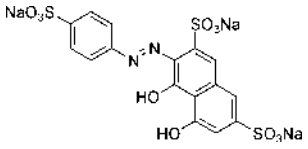
(4,5-Dihydroxy-3-(p-sulfophenylazo)-2,7-naphthalene disulfonic acid, trisodium salt). Indicator for zirconium, thorium.

$(HO)_2C_{10}H_3(SO_3Na)_2N{=}NC_6H_4SO_3Na$ F.W. 570.42

Clarity of solution - Pass test Sensitivity to fluoride - Pass test

CAS # 23647-14-5 DOT NR

69752 25 G



SPIROBIS

See 3,3,3',3'-Tetramethyl-1,1'-Spirobisindane-5,5',6,6'-Tetrol

STANDARD IRON ORE SAMPLES ITEM 450-490

A carefully analyzed series of iron ores for reference standards or student analysis covering the range 40-68% iron in small steps. For further information, write or call for brochure.

DOT NR

Please Inquire For Sizes

STANDARD LIMESTONE SAMPLES ITEM 400-420

A carefully analyzed series of limestones for reference standards or student analysis. Analyzed for Calcium, Calcium plus Magnesium, Silica & Iron. For further information, write or call for brochure.

DOT NR

Please Inquire For Sizes

STANDARDS, ICP MULTIELEMENT

See Multielement Standard

STANNIC CHLORIDE, PENTAHYDRATE ITEM 3679

Water content may vary from 4-6 hydrate.

$SnCl_4 \bullet 5H_2O$ F.W. 350.58

Tin (IV) content 32.0-36.0%

CAS # 10026-06-9 DOT 8/III

70421	100 G
70422	500 G

STANNIC OXIDE, 99.99+% ITEM 3634

SnO_2 F.W. 150.69

Assay 99.99+%

CAS # 18282-10-5 DOT NR NFPA # 1-0-0

70411	5 G
70412	25 G
70413	100 G

STANNIC OXIDE, 99.9% ITEM 3633

-325 mesh

SnO_2 F.W. 150.69

Assay (metals basis) 99.9%

CAS # 18282-10-5 DOT NR NFPA # 1-0-0

70401	50 G
70402	250 G
70403	1 KG

STANNOUS CHLORIDE, ANHYDROUS, 99.99+% ITEM 3636

$SnCl_2$ F.W. 189.60

Assay (metals basis) 99.99+% min. Tin (II) content 61.3% min.

CAS # 7772-99-8 DOT 8/III NFPA # 2-0-1

70521	10 G
70522	50 G

STANNOUS CHLORIDE, ANHYDROUS 98% — ITEM 2429

Tin (II) Chloride

$SnCl_2$ F.W. 189.60

Assay 98.0% min.

CAS # 7772-99-8 DOT 8/III NFPA # 2-0-1

70491	100 G	**$**
70492	500 G	
70493	2.5 KG	

STANNOUS CHLORIDE, DIHYDRATE, REAGENT (ACS), LOW MERCURY — ITEM 5639

$SnCl_2 \bullet 2H_2O$ F.W. 225.63

Assay 98.0-103.0%
Sulfate - Pass Test
Potassium 0.005%
Mercury 50 ppb
Iron 0.003%
Solubility in HCl - Pass Test
Sodium 0.01%
Calcium 0.005%
Lead 0.01%

CAS # 10025-69-1 DOT 8/III

20681	100 G
20682	500 G
20683	2.5 KG

STANNOUS CHLORIDE, DIHYDRATE, REAGENT (ACS) — ITEM 562

$SnCl_2 \bullet 2H_2O$ F.W. 225.63

Assay 98.0-103.0%
Sulfate - Pass Test
Potassium 0.005%
Lead 0.01%
Solubility in HCl - Pass Test
Sodium 0.01%
Calcium 0.005%
Iron 0.003%

CAS # 10025-69-1 DOT 8/III NFPA # 2-0-1

70501	100 G
70502	500 G
70503	2.5 KG
70504	10 KG
70505	50 KG

STANNOUS CHLORIDE, 40%, SOLUTION — ITEM 2149

APHA for Arsenic

$SnCl_2 \bullet 2H_2O$ F.W. 225.63

Concentration 39-41%

CAS # 10025-69-1 DOT 8/III

25481	500 ML

Specific Gravity 1.290

STANNOUS CHLORIDE, 10% W/V, SOLUTION — ITEM 2148

For mercury determination

$SnCl_2 \bullet 2H_2O$ F.W. 225.63

Concentration 9.5-10.5% (w/v)
Suitability for mercury determination Pass test

CAS # 10025-69-1 DOT 8/III

25471	500 ML

Specific Gravity 1.083

STANNOUS CHLORIDE, REAGENT I, SOLUTION — ITEM 2150

APHA for Phosphate

$SnCl_2 \bullet 2H_2O$ F.W. 225.63

Made to APHA specification - pass test

CAS # 10025-69-1 DOT NR

25491	500 ML

STANNOUS OXIDE, REAGENT — ITEM 1196

SnO F.W. 134.69

Chloride 0.01%
Arsenic 0.001%
Sulfate 0.005%
Iron 0.01%

CAS # 21651-19-4 DOT NR NFPA # 1-0-0

70531	100 G
70532	500 G

STANNOUS PYROPHOSPHATE — ITEM 3668

$Sn_2P_2O_7$ F.W. 411.32

Tin content 55% min.
Moisture 1% max.

CAS # 15578-26-4 DOT NR NFPA # 1-0-0

70561	50 G
70562	250 G
70563	1 KG

STANNOUS SULFATE, REAGENT — ITEM 1043

$SnSO_4$ F.W. 214.77

Assay (as Sn II) 50.0% min
Iron 0.01%
Mercury 0.0005%
Antimony 0.01%
Lead 0.01%

CAS # 7488-55-3 DOT NR NFPA # 1-0-0

69551	100 G
69552	500 G

STANNOUS TRIFLATE

See Stannous Trifluoromethanesulfonate. 97%

STANNOUS TRIFLUOROMETHANESULFONATE, 97% ITEM 3544

Not on the TSCA inventory

$Sn(CF_3SO_3)_2$ F.W. 416.83

Assay 97%

CAS # 62086-04-8 DOT 8/II

70541	1 G
70542	5 G

STARCH INDICATOR POWDER

See Vitex

STARCH, SOLUBLE, REAGENT (ACS) ITEM 2414

For iodometry Potato starch

$(C_6H_{10}O_5)_n$

Solubility - passes test
Residue after ignition 0.4% max
pH of 2% solution 5.0-7.0 at 25C
Sensitivity - passes test

CAS # 9005-84-9 DOT NR NFPA # 0-1-0

88311	100 G
88312	500 G
88313	2.5 KG
88314	10 KG
88315	50 KG

STARCH INDICATOR SOLUTION, 2% ITEM 2152

Preserved with Salicylic Acid

Suitability as indicator Pass test

CAS # 9005-84-9 DOT NR

25511	500 ML
25512	4 L

Specific Gravity 1.000

STARCH INDICATOR SOLUTION, 1% ITEM 2537

Preserved with Salicylic Acid

Suitability as indicator - Pass test

CAS # 9005-84-9 DOT NR

70591	500 ML
70592	4 L

Specific Gravity 1.000

STATOCALCEIN

See Dipotassium Pentacalcium Dicalcein

STEARIC ACID, 95% ITEM 5461

$CH_3(CH_2)_{16}COOH$ F.W. 284.48

Assay 95% min.

CAS # 57-11-4 DOT NR

17681	100 G
17682	500 G
17683	2.5 KG

STIRRING BARS, PTFE COATED

See Magnetic Stirring Bar

STRONTIUM, 10,000 ppm ICP STANDARD SOLUTION ITEM 1808

Concentration 10,000 ± 100 ug/ml
NIST Traceable
Matrix: 5% Nitric acid

DOT 8/III NFPA # 2-0-1

23080	100 ML
23082	500 ML

Specific Gravity 1.030

STRONTIUM, 1,000 ppm ICP STANDARD SOLUTION ITEM 1807

Concentration 1,000 ± 10 ug/ml
NIST Traceable
Matrix: 5% nitric acid

DOT 8/III NFPA # 2-0-1

23070	100 ML
23072	500 ML

Specific Gravity 1.030

STRONTIUM, 1,000 ppm STANDARD SOLUTION ITEM 762

AA, colorimetric or volumetric standard

Concentration 1,000 ± 10 ug/ml
NIST Traceable
Matrix: 5% Nitric acid

DOT NR NFPA # 2-0-1

70320	100 ML
70322	500 ML

Specific Gravity 1.030

STRONTIUM BROMIDE, REAGENT ITEM 1197

$SrBr_2 \bullet 6H_2O$ F.W. 355.56

Assay 97% min.
Chloride 0.4%
Barium 0.5%
Iron 0.002%
Insoluble 0.01%
Sulfate 0.005%
Heavy Metals (Pb) 0.002%

CAS # 7789-53-9 DOT NR NFPA # 1-0-0

70651	100 G
70652	500 G

STRONTIUM CARBONATE, 99.998+% ITEM 5098

$SrCO_3$ F.W. 147.63

Assay (metals basis) 99.998% min Strontium 59%

CAS # 1633-05-2 DOT NR NFPA # 1-0-0

87941	5 G
87942	25 G
87943	100 G

STRONTIUM CARBONATE, REAGENT ITEM 620

$SrCO_3$ F.W. 147.63

Assay 98%
Chloride 0.005%
Nitrate 0.1%
Iron 0.002%
Calcium 0.5%
Insoluble in dil. HCl 0.01%
Sulfate 0.005%
Barium 0.05%
Heavy Metals (Pb) 0.002%

CAS # 1633-05-2 DOT NR NFPA # 1-0-0

70700	100 G
70701	500 G
70702	2.5 KG

STRONTIUM CHLORIDE, HEXAHYDRATE, REAGENT (ACS) ITEM 807

$SrCl_2 \bullet 6H_2O$ F.W. 266.62

Assay 99.0-103.0%
pH of 5% solution 5.0-7.0 @ 25 C
Barium 0.05%
Heavy metals (Pb) 0.0005%
Magnesium 0.0002%
Insoluble 0.005%
Sulfate 0.001%
Calcium 0.05%
Iron 0.0005%

CAS # 10025-70-4 DOT NR NFPA # 1-0-0

70750	100 G
70751	500 G
70752	2.5 KG
70753	10 KG
70754	50 KG
70755	100 KG
70756	1000 KG
70757	5,000 KG

STRONTIUM CHROMATE, REAGENT ITEM 572

$SrCrO_4$ F.W. 203.64

Assay 95.0% min

CAS # 7789-06-2 DOT 9/III

70800	100 G
70801	500 G

STRONTIUM CITRATE, DIBASIC ITEM 5280

Typically -80 mesh powder. Not on the TSCA inventory.

$SrHC_6H_5O_7$ F.W. 277.75

Assay 97.0% min.
Sulfate 0.05%
Chloride 0.002%
Heavy metals (as Pb) 0.002%

CAS # 813-97-8 DOT NR

Please Inquire For Sizes

STRONTIUM FLUORIDE, 99% ITEM A7638

SrF_2 F.W. 125.62

CAS # 7783-48-4 DOT 6.1/III

70821	250 G

STRONTIUM HYDROXIDE, OCTAHYDRATE, 99% ITEM A7647

Strontium Hydrate

$Sr(OH)_2 \bullet 8H_2O$ F.W. 265.76

Assay (metals basis) 99% min. Assay (by EDTA titration) 96% min.

CAS # 1311-10-0 DOT 8/II

70830	100 G
70831	500 G
70832	2.5 KG
70833	10 KG

STRONTIUM IODIDE, ANHYDROUS ITEM 5492

SrI_2 F.W. 341.43

Assay (metals basis) Water content

CAS # 10476-86-5 DOT NR

Please Inquire For Sizes

STRONTIUM MOLYBDATE, 99.9% ITEM 1500

$SrMoO_4$ F.W. 247.56

CAS # 13470-04-7 DOT NR

70861	25 G

STRONTIUM NITRATE, 99.999% ITEM 5099

$Sr(NO_3)_2$ F.W. 211.63

Assay (metals basis) 99.999% min.

CAS # 10042-76-9 DOT 5.1/III NFPA # 1-0-3

87951	5 G
87952	25 G

S

STRONTIUM NITRATE, REAGENT (ACS) ITEM 808

$Sr(NO_3)_2$ F.W. 211.63

Assay 99.0% min.
Insoluble matter 0.01%
Chloride 0.002%
Barium 0.05%
Magnesium 0.10%
Heavy metals (as Pb) 0.0005%
pH of 5% solution 5.0-7.0 @ 25 C
Loss on drying @ 105 C 0.1%
Sulfate 0.005%
Calcium 0.05%
Sodium 0.10%
Iron 0.0005%

CAS # 10042-76-9 DOT 5.1/III NFPA # 1-0-3

70850	100 G
70851	500 G
70852	2.5 KG
70853	10 KG
70854	50 KG
70855	500 KG
70857	1000 KG

STRONTIUM OXIDE, 99.5% ITEM 1502

SrO F.W. 103.62

Assay (metals basis) 99.5% min.

CAS # 1314-11-0 DOT NR

70881	25 G

STRONTIUM PERCHLORATE, ANHYDROUS, REAGENT ITEM 5168

Reduced-moisture salt to promote synthetic organic reactions. Bartoli, et al., Eur. J. Org. Chem. (2003), 4611.

$Sr(ClO_4)_2$ F.W. 286.52

Strontium content 30.0-31.0%
Iron 0.0005%
pH of 5% solution 5.0-7.0 @ 25 C
Chloride 0.003%
Sulfate 0.001%
Heavy metals (Pb) 0.0005%
Insoluble matter 0.005%

CAS # 13450-97-0 DOT 5.1/II NFPA # 1-0-1

13141	25 G
13142	100 G
13143	500 G

STRONTIUM PERCHLORATE, TRIHYDRATE, REAGENT ITEM 96

$Sr(ClO_4)_2 \bullet 3H_2O$ F.W. 340.57

Assay (as Sr) 25.2-26.2%
Iron 0.0005%
pH of 5% solution 5.0-7.0 @ 25 C
Chloride 0.003%
Sulfate 0.001%
Heavy metals (Pb) 0.0005%
Insoluble 0.005%

CAS # 15650-09-6 DOT 5.1/II NFPA # 1-0-1

70906	100 G
70901	500 G
70902	2.5 KG
70903	10 KG
70904	50 KG

STRONTIUM PHOSPHATE, 99% ITEM 1549

$SrHPO_4$ F.W. 183.60

Particle size 1.4-2.0 um
Barium 1% max.

CAS # 13450-99-2 DOT NR

70891	100 G
70892	500 G

STRONTIUM PROPIONATE, PRACTICAL ITEM A7675

Not on the TSCA inventory.

$Sr(C_3H_5O_2)_2$ F.W. 233.77

Assay 94% min.

CAS # 23287-50-5 DOT NR

70911	25 G

STRONTIUM STANNATE, 99% ITEM A7677

$SrSnO_3$ F.W. 254.33

CAS # 12143-34-9 DOT NR

70920	50 G
70921	250 G

STRONTIUM SULFATE, REAGENT ITEM A7680

$SrSO_4$ F.W. 183.69

Chloride 0.05%
Barium 0.10%
Magnesium 0.05%
Iron 0.01%
Calcium 0.05%
Sodium 0.10%

CAS # 7759-02-6 DOT NR NFPA # 1-0-0

70930	50 G
70931	250 G

STRONTIUM TITANATE, 99.5% ITEM 3749

Typical particle size about 1.4 microns.

$SrTiO_3$ F.W. 183.50

Assay (metals basis) 99.5%

CAS # 12060-59-2 DOT NR

71101	100 G
71102	500 G

STRONTIUM TUNGSTATE, 99.9% ITEM 1511

$SrWO_4$ F.W. 335.47

Assay (metals basis) 99.9% min

CAS # 13451-05-3 DOT NR

71151	25 G

STYRENE, 99% — ITEM 2766

$C_6H_5CH=CH_2$ F.W. 104.15

Assay (GC-FID), 98.5% min
Inhibitor (t-butyl catechol), Confirm presence
Appearance - Clear, colorless liquid

CAS # 100-42-5 DOT 3/III NFPA # 2-3-2

71161	1 L
71162	4 L
71163	19 L

Specific Gravity 0.909

SUCCINIC ACID, REAGENT (ACS) — ITEM A7710

Butanedioic Acid

$HO_2CCH_2CH_2CO_2H$ F.W. 118.09

Assay 99.0% min.
Insoluble 0.01%
Chloride 0.001%
Sulfate 0.003%
Heavy metals 0.0005%
Moisture 0.3%
Melting point 185.0-191.0 C
Residue after ignition 0.02%
Phosphate 0.001%
Nitrogen Compounds (N) 0.001%
Iron 0.0005%

CAS # 110-15-6 DOT NR NFPA # 2-1-0

70961	500 G
70962	2.5 KG
70963	10 KG
70964	50 KG

SUCROSE, REAGENT (ACS) — ITEM 1044

$C_{12}H_{22}O_{11}$ F.W. 342.29

Specific rotation +66.3 to +66.8
Loss on drying @ 105 C 0.03%
Titrable acid 0.0008 meq/g
Sulfate and sulfite 0.005%
Iron 0.0005%
Insoluble 0.005%
Residue after ignition 0.01%
Chloride 0.005%
Heavy metals (as Pb) 0.0005%
Invert sugar 0.05%

CAS # 57-50-1 DOT NR NFPA # 0-1-1

70951	500 G
70952	2.5 KG
70953	10 KG
70954	50 KG

SUGAR

See Sucrose

SULFAMIC ACID, CERTIFIED, PRIMARY STANDARD — ITEM 98

NH_2SO_2OH F.W. 97.10

Assay 99.97-100.03%
Residue after ignition 0.01%
Sulfate 0.05%
Iron 0.0005%
Insoluble 0.01%
Chloride 0.001%
Heavy Metals (Pb) 0.001%

CAS # 5329-14-6 DOT 8/III NFPA # 2-0-2

71021	100 G
71022	500 G

SULFAMIC ACID, PRIMARY STANDARD — ITEM 97

NH_2SO_2OH F.W. 97.10

Assay 99.9-100.0%
Residue after ignition 0.01%
Chloride 0.001%
Iron 0.0005%
Insoluble 0.01%
Heavy Metals (Pb) 0.001%
Sulfate 0.05%

CAS # 5329-14-6 DOT 8/III NFPA # 2-0-2

71001	100 G
71002	500 G
71003	2.5 KG

SULFAMIC ACID, REAGENT (ACS) — ITEM 825

NH_2SO_3H F.W. 97.10

Assay (dried basis) 99.3-100.3%
Residue after ignition 0.01%
Sulfate 0.05%
Iron 0.0005%
Insoluble 0.01%
Chloride 0.001%
Heavy metals (as Pb) 0.001%

CAS # 5329-14-6 DOT 8/III NFPA # 2-0-2

71010	100 G
71011	500 G
71012	2.5 KG
71013	10 KG
71014	50 KG

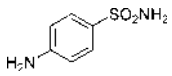
SULFANILAMIDE, REAGENT — ITEM 1045

$C_6H_4(NH_2)SO_2NH_2$ F.W. 172.21

Assay 98.0% min.
M.p. 164-166 C

CAS # 63-74-1 DOT NR NFPA # 0-1-1

71081	100 G
71082	500 G



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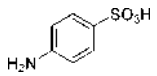
SULFANILIC ACID, ANHYDROUS, REAGENT (ACS) — ITEM 1046

$NH_2C_6H_4SO_3H$ F.W. 173.19

Assay 98.0-102.0%
Insoluble in Na2CO3 solution 0.02%
Nitrite 0.00005%
Residue after ignition 0.01%
Chloride 0.002%
Sulfate 0.01%

CAS # 121-57-3 DOT NR NFPA # 1-1-0

71091 100 G
71092 500 G



SULFATE, 1,000 ppm, ION CHROMATOGRAPHY STANDARD SOLUTION — ITEM 3771

Concentration (as SO4) 1,000 ± 10 ug/mL Matrix: K2SO4, water

DOT NR

23981 100 ML
23982 500 ML

Specific Gravity 1.000

SULFATE, 1,000 ppm STANDARD SOLUTION — ITEM 763

IC, colorimetric or volumetric standard

Concentration (as SO4) 1,000 ± 10 ug/ml Matrix: Sodium sulfate in water
NIST Traceable

DOT NR NFPA # 0-0-0

70330 100 ML
70332 500 ML

Specific Gravity 1.030

SULFATOCERIC ACID

See Ceric Sulfate

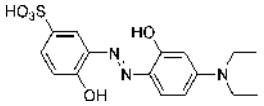
5-SULFO-4'-DIETHYLAMINO-2,2'-DIHYDROXYAZOBENZENE — ITEM 397

DDB. Reagent for the spectrophotometric determination of Aluminum in the presence of Beryllium. T.M. Florence, Anal. Chem, 37,704-707 (1965).

$(HO_3S)(OH)C_6H_3N{=}NC_6H_3(OH)(N(C_2H_5)_2)$ F.W. 365.40

CAS # 1563-01-5 DOT NR

71201 5 G
71202 25 G



7-(4-SULFO-1-NAPHTHYLAZO)-8-HYDROXYQUINOLINE-5-SULFONIC ACID

See SNAZOXS

SULFONATED BATHOCUPROINE

See Bathocuproine, Sulfonated, Sodium Salt

SULFONATED BATHOPHENANTHROLINE

See Bathophenanthroline, Sulfonated

SULFO ORANGE SOLUTION, 0.04% AQUEOUS — ITEM 2155

Visual transition pH 11.0-12.6, yellow-orange/red

CAS # 547-57-9 DOT NR

25541 500 ML

Specific Gravity 1.000

5-SULFOSALICYLIC ACID, REAGENT (ACS) — ITEM 563

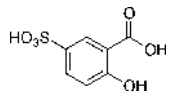
Reagent for iron, aluminum and titanium.

$HOC_6H_3(COOH)SO_3H{\bullet}2H_2O$ F.W. 254.22

Assay 99.0-101.0%
Residue 0.1%
Salicylic acid 0.04%
Heavy metals(Pb) 0.002%
Insoluble 0.02%
Chloride 0.001%
Sulfate 0.02%
Iron 0.001%

CAS # 5965-83-3 DOT NR NFPA # 1-1-0

71401 100 G
71402 500 G



SULFUR, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1810

Concentration 10,000 ± 100 ug/ml Matrix: Ammonium sulfate in water
NIST Traceable

DOT NR

23100 100 ML
23102 500 ML

Specific Gravity 1.000

SULFUR, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1809

Concentration 1,000 ± 10 ug/ml
NIST Traceable

Matrix: Ammonium sulfate in water

DOT NR

23090	100 ML
23092	500 ML

Specific Gravity 1.000

SULFURATED POTASH — ITEM 2296

Liver of Sulfur. Lumps and pieces

Assay (as K2S) 38% min
Sulfite 0.1%

Insoluble 1.0% max

CAS # 39365-88-3 DOT 8/II

71521	500 G
71522	2.5 KG

SULFUR DIOXIDE SOLUTION

See Sulfurous Acid, 6%

SULFURIC ACID, VERITAS® DOUBLE DISTILLED from VYCOR — ITEM 273

Ultra trace metal grade. Low PPT level impurities. Bottled in FEP bottles to minimize impurities from the container.

H_2SO_4 F.W. 98.09

Assay 95.0-98.0%
Residue after ignition 0.0001%
Nitrate 0.00005%
Reducing substances Pass test
Arsenic 0.0000001%

Appearance colorless
Chloride 0.00001%
Ammonium 0.00001%
Heavy metals 0.0000005%
Boron 0.0000001%

CAS # 7664-93-9 DOT 8/II NFPA # 3-0-3

T **71701**	250 ML
T **71702**	500 ML
T **71703**	2 L

T = FEP Bottle

Specific Gravity 1.840

SULFURIC ACID, ENVIRONMENTAL GRADE — ITEM 2594

Trace metal/ICP grade packed in plastic resin bottles to eliminate common metals leached from glass.

H_2SO_4 F.W. 98.09

Assay 95.0-98.0%
Residue after ignition 0.0005%
Nitrate 0.00005%
Heavy metals 0.00001%

Color (APHA) 10
Chloride 0.00002%
Ammonium 0.00005%

Ag 1 ppb	Al 2 ppb	As 1 ppb
Au 1 ppb	B 1 ppb	Ba 1 ppb
Be 1 ppb	Ca 5 ppb	Cd 1 ppb
Co 1 ppb	Ce 1 ppb	Cs 1 ppb
Cu 1 ppb	Cr 1 ppb	Dy 1 ppb
Er 1 ppb	Eu 1 ppb	Fe 5 ppb
Ga 1 ppb	Gd 1 ppb	Ge 1 ppb
Hf 1 ppb	Hg 1 ppb	Ho 1 ppb
In 1 ppb	K 2 ppb	La 1 ppb
Li 1 ppb	Lu 1 ppb	Mg 1 ppb
Mn 1 ppb	Mo 1 ppb	Na 2 ppb
Nd 1 ppb	Ni 1 ppb	Pb 1 ppb
Pd 1 ppb	Pr 1 ppb	Pt 1 ppb
Rb 1 ppb	Rh 1 ppb	Ru 1 ppb
Sb 1 ppb	Sc 1 ppb	Se 1 ppb
Si 1 ppb	Sm 1 ppb	Sn 1 ppb
Sr 1 ppb	Tb 1 ppb	Ti 1 ppb
V 1 ppb	W 1 ppb	Y 1 ppb
Yb 1 ppb	Zn 1 ppb	Zr 1 ppb

CAS # 7664-93-9 DOT 8/II NFPA # 3-0-3

71491	500 ML
71492	6 X 500 ML
71493	2 L
71494	4 X 2 L
71495	6 X 2 L

Specific Gravity 1.840

SULFURIC ACID, VERITAS® REDISTILLED — ITEM 1512

Trace metal grade. Low ppb metal impurities. Note: Results reported at time of bottling in glass. The levels of Al, B, Ca, K, Mg, Mn, Na, and Si will increase over time.

H_2SO_4 F.W. 98.09

Assay 95.0-98.0%
Residue after ignition 0.0005%
Nitrate 0.00005%
Heavy metals 0.00001%

Color (APHA) 10 max
Chloride 0.00002%
Ammonium 0.00005%

Al 2 ppb	Sb 1 ppb	As 1 ppb
Ba 1 ppb	Be 1 ppb	Bi 1 ppb
B 1 ppb	Cd 1 ppb	Ca 2 ppb
Cr 1 ppb	Co 1 ppb	Cu 1 ppb
Ga 1 ppb	Ge 1 ppb	Au 1 ppb
Fe 5 ppb	Pb 1 ppb	Li 1 ppb
Mg 1 ppb	Mn 1 ppb	Mo 1 ppb
Ni 1 ppb	Nb 1 ppb	K 2 ppb
Ag 1 ppb	Na 2 ppb	Sr 1 ppb
Ta 1 ppb	Tl 1 ppb	Sn 1 ppb
Ti 1 ppb	V 2 ppb	Zn 2 ppb
Zr 1 ppb		

CAS # 7664-93-9 DOT 8/II NFPA # 3-0-3

71681	500 ML
71682	6 X 500 ML
71683	2.5 L
71688	2.5 L PVC

Specific Gravity 1.840

SULFURIC ACID, SUPERIOR REAGENT (ACS) — ITEM 2588

Metals analysis reported on certificate in ppm.

H_2SO_4 F.W. 98.09

Assay 95.0-98.0%	Appearance-Free of suspended or particulate matter
Color (APHA) 10	Residue after ignition 0.0005%
Chloride 0.00002%	Nitrate 0.00005%
Ammonium 0.0002%	Substances reducing permanganate (as SO2) 0.0002%
Arsenic 0.01 ppm	Heavy metals 0.0001%
Mercury 0.005 ppm	

Ag 0.1 ppm	Al 0.2 ppm	Au 0.1 ppm
Ba 0.1 ppm	Ca 0.3 ppm	Cd 0.1 ppm
Co 0.1 ppm	Cr 0.1 ppm	Cu 0.1 ppm
Fe 0.2 ppm	K 0.5 ppm	Li 0.1 ppm
Mg 0.3 ppm	Mn 0.1 ppm	Mo 0.1 ppm
Na 0.3 ppm	Ni 0.1 ppm	Pb 0.1 ppm
Sr 0.1 ppm	Zn 0.1 ppm	

CAS # 7664-93-9 DOT 8/II NFPA # 3-0-3

71471	500 ML
71472	6 X 500 ML
71473	2.5 L
71474	4 X 2.5 L
71476	2.5 L PVC
71477	4X2.5L PVC

Specific Gravity 1.840

SULFURIC ACID, REAGENT (ACS) — ITEM 628

H_2SO_4 F.W. 98.09

Assay 95.0-98.0%	Appearance-Free of suspended or particulate matter
Color (APHA) 10 max	Residue after ignition 0.0005%
Chloride 0.00002%	Nitrate 0.00005%
Ammonium 0.0002%	Substances reducing permanganate (as SO2) 0.0002%
Arsenic 0.000001%	Heavy metals 0.0001%
Iron 0.00002%	Mercury 0.0000005%

CAS # 7664-93-9 DOT 8/II NFPA # 3-0-3

71601	500 ML
71603	6 X 500 ML
71602	2.5 L
71604	4 X 2.5 L
71616	2.5 L PVC
71617	4X2.5L PVC

Specific Gravity 1.840

SULFURIC ACID, REAGENT, FOR BABCOCK TEST — ITEM 1264

H_2SO_4 F.W. 98.09

Suitability for Babcock test - pass test Assay 90.5-92.7%
Specific gravity 1.820-1.830 @ 20 C

CAS # 7664-93-9 DOT 8/II NFPA # 3-0-3

71653	2.5 L
71651	4 X 2.5 L

Specific Gravity 1.820

SULFURIC ACID, SOLUTION, 18 N — ITEM 1977

9.0 mol/L

H_2SO_4 F.W. 98.09

Concentration 59.0-61.0% (w/w)	Concentration 49-51% (v/v)
Normality 18 ± 0.5	Clear, colorless solution
Meets other ACS reagent specifications	

CAS # 7664-93-9 DOT 8/II NFPA # 3-0-3

71532	1 L
71531	4 L

Specific Gravity 1.520

SULFURIC ACID, SOLUTION, 6 N — ITEM 9005

H_2SO_4 F.W. 98.09

Concentration 6.00 ± 0.06 N

CAS # 7664-93-9 DOT 8/II NFPA # 2-0-2

20261	500 ML
20262	4 L

Specific Gravity 1.190

SULFURIC ACID, SOLUTION, 5.00 N — ITEM 2158

2.5 mol/L

H_2SO_4 F.W. 98.09

Concentration 5.00 ± 0.02 N

CAS # 7664-93-9 DOT 8/II NFPA # 2-0-2

25572	2.5 L
25571	4 L

Specific Gravity 1.150

SULFURIC ACID, SOLUTION, 2.56 N — ITEM 1557

1.28 mol/L

H_2SO_4 F.W. 98.09

Concentration 2.56 ± 0.01 N

CAS # 7664-93-9 DOT 8/II NFPA # 2-0-1

71671	4 L
71672	4 X 4 L

Specific Gravity 1.080

SULFURIC ACID, SOLUTION, 1 N — ITEM 1201

0.5 mol/L

H_2SO_4 F.W. 98.09

Normality 1.000 ± 0.002 N

CAS # 7664-93-9 DOT 8/II NFPA # 2-0-1

71643	2.5 L
71641	4 L
71642	4 X 4 L
71644	20 L

Specific Gravity 1.030

SULFURIC ACID, SOLUTION, 0.5 N — ITEM 1200

0.25 mol/L

H_2SO_4 F.W. 98.09

Concentration 0.5000 ± 0.0010 N

CAS # 7664-93-9 DOT 8/II NFPA # 2-0-1

71633	2.5 L
71631	4 L
71632	4 X 4 L
71635	20 L

Specific Gravity 1.015

SULFURIC ACID, SOLUTION, 0.25 N — ITEM 2255

0.125 mol/L

H_2SO_4 F.W. 98.09

Normality 0.250 ± 0.001N

CAS # 7664-93-9 DOT 8/II NFPA # 2-0-1

71542	2.5 L
71541	4 L

Specific Gravity 1.015

SULFURIC ACID, SOLUTION, 0.1 N — ITEM 1199

0.05 mol/L

H_2SO_4 F.W. 98.09

Concentration 0.1000 ± 0.0002 N

CAS # 7664-93-9 DOT 8/III NFPA # 2-0-1

71625	2.5 L
71621	4 L
71622	4 X 4 L
71623	20 L

Specific Gravity 1.010

SULFURIC ACID, SOLUTION, 0.02 N — ITEM 1198

0.01 mol/L

H_2SO_4 F.W. 98.09

Concentration 0.0200 N ± 0.0002

CAS # 7664-93-9 DOT NR NFPA # 1-0-0

71611	4 L
71612	4 X 4 L
71613	20 L

Specific Gravity 1.000

SULFURIC ACID, 70%, REAGENT — ITEM 1565

Appearance-colorless and free of suspended matter.

H_2SO_4 F.W. 98.09

Assay 69.0-71.0%	Residue after ignition 0.0005%
Chloride 0.00002%	Nitrate 0.00005%
Ammonium 0.0002%	Substances reducing permanganate-Pass test
Arsenic 0.000001%	Heavy metals 0.0001%
Iron 0.00002%	Mercury 0.0000005%

CAS # 7664-93-9 DOT 8/II NFPA # 3-0-3

71591	2.5 L
71592	4 X 2.5 L
71596	2.5 L PVC
71597	4X2.5L PVC
71595	200 L

Specific Gravity 1.602

SULFURIC ACID, 37%, SOLUTION — ITEM 2173

H_2SO_4 F.W. 98.09

Assay 35.0-39.0%

CAS # 7664-93-9 DOT 8/II NFPA # 2-0-2

71581	4 L
71582	4 X 4 L

Specific Gravity 1.280

SULFURIC ACID, SOLUTION, 20% W/V — ITEM 2911

H_2SO_4 F.W. 98.09

Concentration (w/v) 20 ± 1%

CAS # 7664-93-9 DOT 8/II NFPA # 2-0-1

71461	4 L
71462	4 X 4 L
71463	20 L

Specific Gravity 1.130

SULFURIC ACID SOLUTION, 10% V/V — ITEM 2157

H_2SO_4 F.W. 98.09

Concentration (v/v) 10% ± 0.5%

CAS # 7664-93-9 DOT 8/II NFPA # 2-0-1

25561	4 L

Specific Gravity 1.110

S

SULFUROUS ACID, 6%, REAGENT (ACS) ITEM 1109

H_2SO_3 F.W. 82.08

Assay (SO2) 6.0% min
Chloride 0.0005%
Heavy metals (as Pb) 0.0002%
Identification - Pass test
Residue after ignition 0.005%
Iron 0.0005%
Appearance - clear, colorless - pass test

CAS # 7782-99-2 DOT 8/II NFPA # 3-0-2

71731	500 ML
71732	2.5 L
71736	4 X 2.5 L
71735	55 L

Specific Gravity 1.030

SUPER Tc®-123 ITEM 1552

Super Tc is a registered trademark of W.R. Grace and Co. Con.

Assay 99.9% min
Mesh size 1-30 micron

CAS # 107539-20-8 DOT NR

Please Inquire For Sizes

TALC ITEM 5463

Hydrous magnesium silicate

$3MgO•4SiO_2•H_2O$ F.W. 379.28

Particle size -200 mesh 97% min.

CAS # 14807-96-9 DOT NR

15551	100 G
15552	500 G
15553	2.5 KG

TANNIC ACID, REAGENT (ACS) ITEM 2415

$C_{76}H_{52}O_{46}$ F.W. 1701.22

Identification - Passes Test
Residue after ignition 0.5%
Zinc 0.005%
Loss on drying 12.0%
Heavy Metals (as Pb) 0.003%
Sugars, dextrin - passes test

CAS # 1401-55-4 DOT NR NFPA # 0-1-0

88321	100 G
88322	500 G
88323	2.5 KG

TANTALUM, 99.98% ITEM A7764

Specify powder or wire.

Ta F.W. 180.95

Assay (metals basis) 99.98% min.

CAS # 7440-25-7 DOT NR

71711	25 G

TANTALUM, 10,000 ppm ICP STANDARD SOLUTION ITEM 1812

Concentration 10,000 ± 100 ug/ml
NIST Traceable
Matrix: 2% Hydrofluoric acid

DOT 8/II NFPA # 4-0-2

23120	100 ML
23122	500 ML

Specific Gravity 1.010

TANTALUM, 1,000 ppm ICP STANDARD SOLUTION ITEM 1811

Concentration 1,000 ± 10 ug/ml
NIST Traceable
Matrix: 2% Hydrofluoric acid

DOT 8/II NFPA # 4-0-2

23110	100 ML
23112	500 ML

Specific Gravity 1.010

TANTALUM CARBIDE, 99% ITEM A7776

Powder 1 um

TaC F.W. 192.96

Assay 99%

CAS # 12070-06-3 DOT NR

71741	10 G

TANTALUM DIBORIDE, 99.7% ITEM A7770

Powder - 325 mesh

TaB_2 F.W. 202.57

CAS # 12007-35-1 DOT NR

71750	5 G
71751	25 G

TANTALUM NITRIDE, 99% ITEM A7785

TaN F.W. 194.95

CAS # 12033-62-4 DOT NR

71760	5 G
71761	25 G

TANTALUM OXIDE, 99.99+% ITEM 5071

Ta_2O_5 F.W. 441.90

Assay (metals basis) 99.99+% min.

CAS # 1314-61-0 DOT NR

87671 5 G
87672 25 G

TANTALUM OXIDE, 99.5% ITEM A7788

Ta_2O_5 F.W. 441.90

CAS # 1314-61-0 DOT NR

71771 25 G

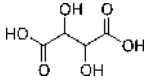
DL-TARTARIC ACID, 99%, ANHYDROUS ITEM 3489

$HOOC(CHOH)_2COOH$ F.W. 150.09

Assay 99%
Heavy metals 0.001%
Loss on drying 0.5%
Arsenic 5 ppm

CAS # 133-37-9 DOT NR

10161 100 G
10162 500 G
10163 2.5 KG
10165 50 KG



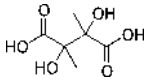
L-TARTARIC ACID, REAGENT (ACS) ITEM 809

$HOOC(CHOH)_2COOH$ F.W. 150.09

Assay 99.0% min
Residue 0.02%
Oxalate-pass test
Sulfur compounds 0.002%
Iron 0.0005%
Insoluble 0.005%
Chloride 0.001%
Phosphate 0.001%
Heavy Metals 0.0005%

CAS # 87-69-4 DOT NR NFPA # 0-1-0

71801 100 G
71802 500 G
71803 2.5 KG
71804 10 KG
71805 50 KG



L-TARTARIC ACID SOLUTION, 10% W/V ITEM 2160

$HOOC(CHOH)_2COOH$ F.W. 150.09

Concentration (w/v) 10.0 ± 0.5%

CAS # 87-69-4 DOT NR

25591 500 ML

Specific Gravity 1.040

TBPPEEK

See Tetrabromophenolphthalein Ethyl Ester, Potassium Salt

1-(T-BUTOXY)-4-ETHYNYLBENZENE

See 4-(T-Butoxy)phenylacetylene, 98%

T-BUTYL CHLORIDE

See 2-Chloro-2-Methylpropane, 99%

T-BUTYLMETHYLACETYLENE

See 4,4-Dimethyl-2-Pentyne, 98%

T-BUTYL METHYL ETHER

See Methyl tert-Butyl Ether

TEEN

See N,N,N',N'-Tetraethylethylenediamine

TELLURIUM, 99.999% ITEM A7830

Irregular pieces

Te F.W. 127.60

CAS # 13494-80-9 DOT NR NFPA # 1-0-0

71810 10 G
71811 100 G

TELLURIUM, 10,000 ppm ICP STANDARD SOLUTION ITEM 1814

Concentration 10,000 ± 100 ug/ml
NIST Traceable
Matrix: 20% Hydrochloric acid

DOT 8/II NFPA # 3-0-2

23140 100 ML
23142 500 ML

Specific Gravity 1.040

TELLURIUM, 1,000 ppm ICP STANDARD SOLUTION ITEM 1813

Concentration 1,000 ± 10 ug/ml
NIST Traceable
Matrix: 20% Hydrochloric acid

DOT 8/II NFPA # 3-0-2

23130 100 ML
23132 500 ML

Specific Gravity 1.040

TELLURIUM OXIDE, 99.5% — ITEM A7841

TeO_2 F.W. 159.60

Assay (metals basis) 99.5%

CAS # 7446-07-3 DOT NR

71821	50 G
71822	250 G

TEOS

See Tetraethyl Orthosilicate, 98%

TERBIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1816

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III

23160	100 ML
23162	500 ML

Specific Gravity 1.030

TERBIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1815

Concentration 1,000 ± 20 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III

23150	100 ML
23152	500 ML

Specific Gravity 1.030

TERBIUM ACETATE, TETRAHYDRATE, 99.99% — ITEM 5169

$Tb(C_2H_3O_2)_3 \bullet 4H_2O$ F.W. 408.13

Assay (metals basis) 99.99% Terbium content (by EDTA titration) 38.5-42.4%

CAS # 25519-07-7 DOT NR

13151	5 G
13152	25 G

TERBIUM ACETATE, TETRAHYDRATE, 99.9% — ITEM A7854

$Tb(C_2H_3O_2)_3 \bullet 4H_2O$ F.W. 408.13

Assay (metals basis) 99.9% min Terbium content (by EDTA titration) 38.5-42.4%

CAS # 25519-07-7 DOT NR

71841	5 G
71842	25 G

TERBIUM ACETYLACETONATE — ITEM 5170

Not on the TSCA inventory. For R&D use only.

$Tb(C_5H_7O_2)_3 \bullet XH_2O$ F.W. 456.25 (ANHYD.)

Assay (as Tb) 30.5-32.5%

CAS # 14284-95-8 DOT NR

13161	1 G
13162	5 G

TERBIUM CHLORIDE, 99.9%, ANHYDROUS — ITEM 5171

$TbCl_3$ F.W. 265.28

Assay (Metals basis) 99.9% Terbium content (by EDTA titration) 57.5-61.0%

CAS # 10042-88-3 DOT NR

13171	1 G
13172	5 G

TERBIUM CHLORIDE, HEXAHYDRATE, 99.99% — ITEM 5172

$TbCl_3 \bullet 6H_2O$ F.W. 373.38

Assay (Metals basis) 99.99% Terbium content (by EDTA titration) 40.5-44.5%

CAS # 13798-24-8 DOT NR

13331	10 G
13332	50 G

TERBIUM CHLORIDE, HEXAHYDRATE, 99.9% — ITEM A7866

$TbCl_3 \bullet 6H_2O$ F.W. 373.38

Assay (Metals basis) 99.9% Terbium content (by EDTA titration) 40.5-44.5%

CAS # 13798-24-8 DOT NR

71861	10 G
71862	50 G

TERBIUM FLUORIDE, 99.9% — ITEM A7872

TbF_3 F.W. 215.92

CAS # 13708-63-9 DOT NR

71871	5 G

TERBIUM HYDROXIDE, 99.5% — ITEM A7882

$Tb(OH)_3 \bullet xH_2O$ F.W. 209.95 + XH2O

Assay (metals basis) 99.5% min. Terbium content 60.0-65.0%

CAS # 12054-65-8 DOT NR

71881	5 G

TERBIUM NITRATE, HEXAHYDRATE, 99.99% — ITEM 5173

$Tb(NO_3)_3 \bullet 6H_2O$ F.W. 453.04

Assay (metals basis) 99.99% Terbium content (by EDTA titration) 33.5-36.5%

CAS # 10043-27-3 DOT 5.1/III

13391 2 G
13392 10 G
13393 50 G

TERBIUM NITRATE, HEXAHYDRATE, 99.9% — ITEM A7884

$Tb(NO_3)_3 \bullet 6H_2O$ F.W. 453.04

Assay (metals basis) 99.9% min Terbium content (by EDTA titration) 33.5-36.5%

CAS # 10043-27-3 DOT 5.1/III

71891 10 G
71892 50 G

TERBIUM OXALATE, 99.9% — ITEM A7893

$Tb_2(C_2O_4)_3$ F.W. 581.92

Assay (Metals Basis) 99.9%

CAS # 996-33-8 DOT NR

71911 5 G

TERBIUM OXIDE, 99.99% — ITEM 2239

Tb_4O_7 F.W. 747.70

Assay (metals basis) 99.99% min

CAS # 12037-01-3 DOT NR

26381 5 G

TERBIUM OXIDE, 99.9% — ITEM 640

Tb_4O_7 F.W. 747.70

Assay (metals basis) 99.9% min.

CAS # 12037-01-3 DOT NR

71901 10 G
71902 25 G

TERBIUM PERCHLORATE, HYDRATED, 50% SOLUTION, REAGENT — ITEM 641

$Tb(ClO_4)_3 \bullet 6H_2O$ F.W. 565.37

Terbium content 13.5-14.6% Insoluble 0.01%
Chloride 0.01%

CAS # 14014-09-6 DOT NR

72001 20 G
72002 50 G

TERBIUM SULFATE, 99.9% — ITEM A7908

$Tb_2(SO_4)_3 \bullet 8H_2O$ F.W. 750.18

Assay (metals basis) 99.9%

CAS # 13692-99-4 DOT NR

72051 10 G

TERBIUM TRIFLATE

See Terbium Trifluoromethanesulfonate, 97%

TERBIUM TRIFLUOROMETHANESULFONATE, 97% — ITEM 3545

Not on the TSCA inventory

$Tb(CF_3SO_3)_3$ F.W. 606.13

Assay 97% min.

CAS # 148980-31-8 DOT NR

72091 1 G
72092 5 G

2,2',2"-TERPYRIDINE, 98+% — ITEM 177

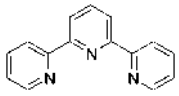
Tripyridine, Tripyridyl. Reagent for colorimetry.

$C_{15}H_{11}N_3$ F.W. 233.27

Assay (GC-FID), 98.0% min Identification by GC/MS - Conforms
Color - Yellow to green Form - Powder or crystal

CAS # 1148-79-4 DOT 6.1/I NFPA # 4-0-0

72201 1 G
72202 5 G
72203 10 G
72204 100 G



bis-(2,2',2"-TERPYRIDINE) RUTHENIUM (II) CHLORIDE — ITEM 2377

$(C_{15}H_{11}N_3)_2RuCl_2$ F.W. 638.52

Solubility Pass Test

CAS # 168922-04-1 DOT NR

72221 1 G
72222 5 G
72223 25 G

TERPYRIDYL

See 2,2',2"-Terpyridine

TERT-BUTYLACETYLENE

See 3,3-Dimethyl-1-Butyne, 97%

TES CHLORIDE

See Chlorotriethylsilane, 98+%

TETRAAMINEPLATINIUM (II) CHLORIDE, 99.999% — ITEM 5095

$(NH_3)_4PtCl_2 \bullet xH_2O$ F.W. 334.12

Assay (metals basis) 99.999% min.

CAS # 13933-32-9 DOT NR

87911	100 MG
87912	1 G

2',4',5',7'-TETRABROMOFLUORESCEIN, DISODIUM SALT

See Eosin Y

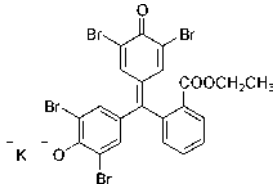
TETRABROMOPHENOLPHTHALEIN ETHYL ESTER, POTASSIUM SALT, REAGENT (ACS) — ITEM 1047

$C_{22}H_{13}O_4Br_4K$ F.W. 700.08

Appearance Pass test
Assay 95.0% min.
Solubility Pass test

CAS # 62637-91-6 DOT NR

72301	1 G
72302	5 G



TETRABUTYLAMMONIUM BROMIDE, REAGENT (ACS) — ITEM 353

Polarographic Grade. A specially purified reagent suitable for supporting electrolyte in polarographic work.

$(C_4H_9)_4NBr$ F.W. 322.37

Assay 98.0% min
Appearance White crystals
Tributylamine 0.5%
Tributylamine hydrobromide 0.5%
Polarographic test Pass test

CAS # 1643-19-2 DOT NR NFPA # 2-1-1

72401	25 G
72403	100 G

TETRABUTYLAMMONIUM CHLORIDE, HYDRATE, 98% — ITEM 2462

$(C_4H_9)_4NCl \bullet H_2O$ F.W. 295.94

Assay 98.0% min
Tributylamine hydrochloride 1% max

CAS # 37451-68-6 DOT NR

72411	10 G
72412	50 G
72413	250 G

TETRABUTYLAMMONIUM CHLORIDE, 1.0 M AQUEOUS — ITEM 2432

$(C_4H_9)_4NCl$ F.W. 277.92

Concentration 1.00 ± 0.05 M

CAS # 1112-67-0 DOT NR

72421	250 ML
72422	1 L

Specific Gravity 1.000

TETRABUTYLAMMONIUM DIHYDROGEN PHOSPHATE — ITEM 2433

99% Crystals

$(C_4H_9)_4N(H_2PO_4)$ F.W. 339.46

Assay 99.0% min.
UV Absorbance (0.1% H2O) @ 196 nm 1.00
UV Absorbance (0.1% H2O) @ 200 nm 0.20
UV Absorbance (0.1% H2O) @ 210 nm 0.15
UV Absorbance (0.1% H2O) @ 220-400 nm 0.01
Appearance - White to Off White Solid
pH of 5% solution 3.8-4.5 @ 25 C

CAS # 5574-97-0 DOT NR NFPA # 2-1-0

72432	5 G
72433	25 G
72434	100 G
72435	1 KG
72436	5 KG

TETRABUTYLAMMONIUM DIHYDROGEN PHOSPHATE, 97% — ITEM 5658

$(C_4H_9)_4N(H_2PO_4)$ F.W. 339.46

Assay 97.0% min.
pH of 5% solution 3.8-4.5 @ 25 C

CAS # 5574-97-0 DOT NR

21211	1 KG

TETRABUTYLAMMONIUM FLUORIDE, HYDRATE, 98% — ITEM 5147

x hydrate is about 2-3

$(C_4H_9)_4NF \bullet XH_2O$ F.W. 261.46

Assay (dried basis) 98%
Water content 12-17%

CAS # 22206-57-1 DOT 8/III

13471	10 G
13472	100 G
13473	1 KG

TETRABUTYLAMMONIUM HEXAFLUOROPHOSPHATE — ITEM 2435

$(C_4H_9)_4NPF_6$ F.W. 387.44

Assay 98% min.

CAS # 3109-63-5 DOT NR

72441	20 G
72442	100 G
72443	500 G
72444	1 KG

TETRABUTYLAMMONIUM HYDROXIDE, 0.4 M AQUEOUS, ELECTROMETRIC GRADE — ITEM 2262

Contact GFS for lower purity grade

$(C_4H_9)_4NOH$ F.W. 259.48

Assay 0.4 ± 0.01 M
Bromide 0.05%
Absorbance @ 420 nm 0.15

CAS # 2052-49-5 DOT 8/II

72472	100 ML
72471	500 ML
72473	1 L
72474	4 L
72476	19 L

Specific Gravity 1.000

TETRABUTYLAMMONIUM HYDROXIDE, 1.0 M IN METHYL ALCOHOL — ITEM 5357

$(C_4H_9)_4NOH$ F.W. 259.48

Assay 1.0 ± 0.05 Mol/L

CAS # 2052-49-5 DOT 3/8/II NFPA # 3-3-1

72486	100 ML
72487	500 ML
72488	1 L

Specific Gravity 1.000

TETRABUTYLAMMONIUM HYDROXIDE, 55% AQUEOUS — ITEM 3575

Some solids may be present, which will redissolve upon heating to 40 C in a water bath.

$(C_4H_9)_4NOH$ F.W. 259.48

Concentration 55 ± 1%

CAS # 2052-49-5 DOT 8/II NFPA # 2-0-1

72521	100 ML
72522	500 ML

Specific Gravity 0.972

TETRABUTYLAMMONIUM HYDROXIDE, 40% AQUEOUS SOLUTION — ITEM 2984

Some solids may be present, which will redissolve upon heating to 40 C in a water bath.

$(C_4H_9)_4NOH$ F.W. 259.48

Concentration 40 ± 1%
Halides 0.05%
APHA 100 max
Tributylamine 0.1%

CAS # 2052-49-5 DOT 8/II NFPA # 2-0-1

72511	100 ML
72512	500 ML

Specific Gravity 1.000

TETRABUTYLAMMONIUM IODIDE, REAGENT — ITEM 225

Polarographic Grade. A specially purified reagent suitable for supporting electrolyte in polarographic work at very negative potentials.

$(C_4H_9)_4NI$ F.W. 369.36

Assay 98% min.

CAS # 311-28-4 DOT NR NFPA # 2-1-1

72503	100 G
72504	1 KG

TETRABUTYLAMMONIUM PERCHLORATE, REAGENT — ITEM 394

Tetra-n-butylammonium perchlorate. Suitable for use as polarographic supporting electrolyte.

$(C_4H_9)_4NClO_4$ F.W. 341.93

Assay 98% min.
Moisture - Report
Suitability - Pass Test

CAS # 1923-70-2 DOT 5.1/II NFPA # 2-2-3

72602	50 G
72603	100 G
72605	500 G
72604	1 KG

TETRABUTYLAMMONIUM PHOSPHATE BUFFER, pH 7.5 — ITEM 2436

Mixed phosphate buffer. Approximate tetrabutylammonium ion concentration 0.5 M.

pH of Solution 7.5 ± 0.2

DOT NR NFPA # 1-1-0

72611	250 ML
72612	1 L
72613	4 L

Specific Gravity 1.000

TETRABUTYLAMMONIUM TETRAFLUOROBORATE — ITEM 2434

$(C_4H_9)_4NBF_4$ F.W. 329.28

Assay 98% min. Water 2% max.

CAS # 429-42-5 DOT NR

72621	20 G
72622	100 G
72623	500 G
72624	1 KG

TETRABUTYLAMMONIUM TRIFLUOROMETHANESULFONATE — ITEM 2518

$(C_4H_9)_4NSO_3CF_3$ F.W. 391.54

Identity - Pass test

CAS # 35895-70-6 DOT NR

72631	5 G
72632	25 G

TETRABUTYLTITANATE

See Titanium Tetra-n-Butoxide

TETRACHLOROAURIC (III) ACID, TRIHYDRATE

See Hydrogen Tetrachloroaurate, Trihydrate

T

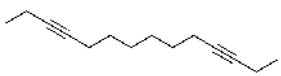
3,11-TETRADECADIYNE — ITEM 3960

Not on the TSCA inventory.

$CH_3CH_2C{\equiv}C(CH_2)_6C{\equiv}CCH_2CH_3$ F.W. 190.33

CAS # 115756-75-7

Please Inquire For Sizes



5,9-TETRADECADIYNE, 95% — ITEM 3309

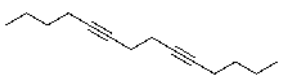
Not on the TSCA inventory.

$CH_3(CH_2)_3C{\equiv}CCH_2CH_2C{\equiv}C(CH_2)_3CH_3$ F.W. 190.33

Assay (GC-FID), 94.0% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to amber liquid

CAS # 51255-61-9 DOT 9/III

83031	5 G
83032	25 G



5,7-TETRADECADIYNOIC ACID, 98% — ITEM 3409

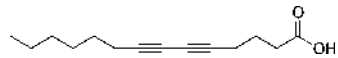
Light sensitive, protect from light. Not on the TSCA inventory.

$CH_3(CH_2)_5C{\equiv}CC{\equiv}C(CH_2)_3COOH$ F.W. 220.32

Assay (GC-FID by Esterification), 97.5% min Identification by GC/MS - Conforms
Appearance - Off-white to light blue solid/powder

CAS # 140654-92-8 DOT NR

89631	5 G
89632	25 G



1-TETRADECENE, 90%, TECHNICAL — ITEM 3310

$CH_3(CH_2)_{11}CH{=}CH_2$ F.W. 196.38

Assay 90% min.

CAS # 1120-36-1 DOT NR

83041	250 G

Specific Gravity 0.775

trans-7-TETRADECENE, 97% — ITEM 3405

Not on the TSCA inventory.

$CH_3(CH_2)_5CH{=}CH(CH_2)_5CH_3$ F.W. 196.38

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms

CAS # 41446-63-3 DOT 9/III

89591	10 G
89592	50 G
89593	250 G

Specific Gravity 0.764

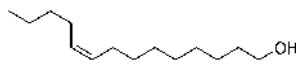
cis-9-TETRADECEN-1-OL — ITEM 3961

$CH_3(CH_2)_3CH{=}CH(CH_2)_8OH$ F.W. 208.33

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Water (KF), 0.5% max Color (APHA), 150 max

CAS # 35153-15-2 DOT NR

16871	1 G
16872	5 G
16873	25 G
16874	100 G



1-TETRADECYNE, 98% — ITEM 3311

Requires refrigeration.

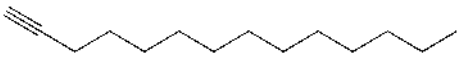
$CH_3(CH_2)_{11}C{\equiv}CH$ F.W. 194.36

Assay (GC-FID), 97.5% min
Color - Colorless
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 765-10-6 DOT NR

83053	5 G
83051	25 G
83052	100 G
83054	1 KG
83055	15 KG
83056	160 KG

Specific Gravity 0.789



7-TETRADECYNE, 97% — ITEM 3406

Not on the TSCA inventory.

$CH_3(CH_2)_5C{\equiv}C(CH_2)_5CH_3$ F.W. 194.36

Assay (GC-FID), 96.5% min
Color - Colorless
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 35216-11-6 DOT 9/III

89601	10 G
89602	50 G

Specific Gravity 0.799

7-TETRADECYN-6,9-DIOL, 95% — ITEM 3312

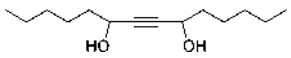
Not on the TSCA inventory.

$CH_3(CH_2)_4CH(OH)C{\equiv}CCH(OH)(CH_2)_4CH_3$ F.W. 226.36

Assay 95% min.

CAS # 174064-00-7 DOT NR

83061	5 G
83062	25 G



3-TETRADECYN-1-OL — ITEM 3962

Not on the TSCA inventory.

$CH_3(CH_2)_9C{\equiv}CCH_2CH_2OH$ F.W. 210.35

CAS # 55182-74-6 DOT NR

Please Inquire For Sizes

7-TETRADECYN-1-OL — ITEM 3963

Not on the TSCA inventory.

$CH_3(CH_2)_5C{\equiv}C(CH_2)_6OH$ F.W. 210.35

CAS # 37011-94-2 DOT NR

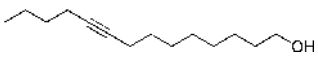
Please Inquire For Sizes

9-TETRADECYN-1-OL — ITEM 3964

$CH_3(CH_2)_3C{\equiv}C(CH_2)_8OH$ F.W. 210.35

CAS # 60037-69-6 DOT NR

Please Inquire For Sizes



TETRAETHYLAMMONIUM BROMIDE — ITEM 1513

Suitable for use as polarographic electrolyte

$(C_2H_5)_4NBr$ F.W. 210.16

Assay 98.0% min
Appearance White crystal

CAS # 71-91-0 DOT NR NFPA # 2-0-0

72721	500 G
72722	2.5 KG
72723	10 KG

TETRAETHYLAMMONIUM CHLORIDE, MONOHYDRATE, 98% — ITEM 1514

$(C_2H_5)_4NCl{\bullet}H_2O$ F.W. 165.71

Assay 98% min.

CAS # 56-34-8 DOT NR NFPA # 2-0-1

72732	100 G
72731	500 G

T

TETRAETHYLAMMONIUM HEXAFLUOROPHOSPHATE — ITEM 2438

Not on the TSCA inventory.

$(C_2H_5)_4NPF_6$ F.W. 275.22

Assay 98.0%

CAS # 429-07-2 DOT NR

72661	20 G
72662	100 G
72663	500 G
72664	1 KG

TETRAETHYLAMMONIUM HYDROXIDE, 1.0 M, AQUEOUS SOLUTION — ITEM 2439

$(C_2H_5)_4NOH$ F.W. 147.26

Concentration 1.00 ± 0.05 M

CAS # 77-98-5 DOT 8/II

72671	250 ML
72672	1 L

Specific Gravity 1.010

TETRAETHYLAMMONIUM HYDROXIDE, 20%, AQUEOUS SOLUTION — ITEM 2520

$(C_2H_5)_4NOH$ F.W. 147.26

Concentration 19.5 - 20.5%
Iron 1 ppm
Sodium 5 ppm
Halides (as chloride) 200 ppm
Potassium 5 ppm
Color (APHA) 10 max.

CAS # 77-98-5 DOT 8/II

72711	100 ML
72712	500 ML

Specific Gravity 1.010

TETRAETHYLAMMONIUM HYDROXIDE, 20%, TECHNICAL GRADE AQUEOUS SOLUTION — ITEM 5324

$(C_2H_5)_4NOH$ F.W. 147.26

Concentration 19.5-20.5%
Iron 2 ppm
Sodium 0.03%
Halides (as Cl) 0.2%
Potassium 0.03%
Color (APHA) 50 max.

CAS # 77-98-5 DOT 8/II

15321	100 ML
15322	500 ML

Specific Gravity 1.010

TETRAETHYLAMMONIUM IODIDE — ITEM 2440

$(C_2H_5)_4NI$ F.W. 257.16

Assay 98.0%

CAS # 68-05-3 DOT NR NFPA # 2-0-0

72681	10 G
72682	100 G

TETRAETHYLAMMONIUM PERCHLORATE — ITEM 511

Suitable for use as polarographic supporting electrolyte. Wet with 10% water.

$(C_2H_5)_4NClO_4$ F.W. 229.71

Chloride Pass Test (about 5 ppm) Water 10-12%
Assay (after drying) 98.0%

CAS # 2567-83-1 DOT 5.1/II NFPA # 1-1-2

72701	25 G
72702	50 G
72703	100 G

TETRAETHYLAMMONIUM TETRAFLUOROBORATE — ITEM 2437

Not on the TSCA inventory.

$(C_2H_5)_4NBF_4$ F.W. 217.06

Assay 98.0%

CAS # 429-06-1 DOT NR

83941	20 G
83942	100 G
83943	500 G
83944	1 KG

N,N,N',N'-TETRAETHYLETHYLENEDIAMINE — ITEM 2357

TEEN

$(C_2H_5)_2NC_2H_4N(C_2H_5)_2$ F.W. 172.32

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 150-77-6 DOT 8/3/II

27511	10 G
27512	50 G

Specific Gravity 0.808

TETRAETHYL ORTHOSILICATE, 98% — ITEM 3590

Tetraethoxysilane

$(C_2H_5O)_4Si$ F.W. 208.33

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 78-10-4 DOT 3/III NFPA # 2-2-1

72922	500 G	
72923	2 KG	**0**
72924	17 KG	

Specific Gravity 0.933

TETRAETHYOXYSILANE

See Tetraethyl Orthosilicate, 98%

TETRAFLUOROBORIC ACID

See Fluoroboric Acid

TETRAHEXYLAMMONIUM IODIDE, REAGENT — ITEM 366

(Tetra-n-hexylammonium Iodide) Suitable as supporting electrolyte in polarography.

$(C_6H_{13})_4NI$ F.W. 481.67

Assay 99% min. Melting point 99-103C

CAS # 2138-24-1 DOT NR

72801	25 G
72803	100 G

TETRAHEXYLAMMONIUM PERCHLORATE — ITEM 512

(Tetra-n-hexylammonium Perchlorate) suitable for use as a polarographic supporting electrolyte.

$(C_6H_{13})_4NClO_4$ F.W. 454.14

Moisture - Report

CAS # 4656-81-9 DOT 5.1/II

72901	25 G
72903	100 G

TETRAHYDRO-2-(2-BUTYNYLOXY)-2H-PYRAN

See 2-Butyn-1-ol Tetrahydro-2H-Pyran Ether

TETRAHYDROFURAN, VERITAS® ULTIMATE — ITEM 5576

No stabilizer

C_4H_8O F.W. 72.11

Assay(CG-FID) 99.9% min.
Color (APHA) 10 max
Peroxides 0.02% max
UV cut-off 212 nm
UV at 250 nm 0.1 AU max
Residue after evaporation 0.0003%
Titrable acid 0.0008 meq/g
Water(KF) 0.02% max
UV at 225 nm 0.5 AU max
UV at 300 nm 0.01 AU max

CAS # 109-99-9 DOT 3/II NFPA # 2-3-2

18151	4 L
18152	4 X 4 L

Specific Gravity 0.890

TETRAHYDROFURAN, DISTILLED IN GLASS — ITEM 1244

Suitable for liquid chromatography, gas chromatography and spectrophotometry. Meets ACS specifications.

C_4H_8O F.W. 72.11

Assay (GLC) 99.7% min
Residue after evaporation 0.0003%
Color (APHA) 20 max.
Water 0.03%

CAS # 109-99-9 DOT 3/II NFPA # 2-3-2

72943	1 L
72944	6 X 1 L
72941	4 L
72942	4 X 4 L

Specific Gravity 0.890

TETRAHYDROFURAN, HPLC — ITEM 2492

Also meets ACS Specifications. Contains no stabilizer.

C_4H_8O F.W. 72.11

Assay (by GC) 99.9% min.
Peroxide 0.015%
Water 0.02%
Optical Absorbance at 254 nm 0.20
Optical Absorbance at 350 nm 0.01
Color (APHA) 10 max.
Residue after evaporation 3 ppm
Optical Absorbance at 212 nm 1.00
Optical Absorbance at 280 nm 0.03

CAS # 109-99-9 DOT 3/II NFPA # 2-3-2

72971	1 L
72972	6 X 1 L
72975	4 L
72976	4 X 4 L

Specific Gravity 0.890

TETRAHYDROFURAN, HALOGEN FREE — ITEM 2348

For use with Organic Halogen Reagent

C_4H_8O F.W. 72.11

Assay (GLC) 99.0% min.
Peroxide 0.015%
Water 0.05%
Color (APHA) 20 max.
Residue after evaporation 0.03%
Halogens 1 ppm

CAS # 109-99-9 DOT 3/II NFPA # 2-3-2

72961	1 L
72962	6 X 1 L
72963	4 L
72964	4 X 4 L

Specific Gravity 0.890

T

TETRAHYDROFURAN, REAGENT (ACS) ITEM 1203

Stabilized with 0.025% BHT

C_4H_8O F.W. 72.11

Assay (GLC) 99.0% min
Peroxide 0.015%
Water 0.05%

Color (APHA) 20 max
Residue after evaporation 0.03%
BHT (as stabilizer - not a specification) 0.025%

CAS # 109-99-9 DOT 3/II NFPA # 2-3-2

72951	500 ML
72954	2 L
72955	4 X 2 L
72952	4 L
72953	4 X 4 L
72956	20 L

Specific Gravity 0.890

TETRAHYDROFURFURYL ALCOHOL, 98% ITEM 2768

$C_4H_7OCH_2OH$ F.W. 102.13

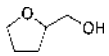
Assay (GC-FID), 97.5% min

Appearance - Clear, colorless to yellow liquid

CAS # 97-99-4 DOT NR

73021	250 G
73022	1 KG

Specific Gravity 1.054



TETRAHYDROFURFURYL CHLORIDE, 96% ITEM 3313

$(C_4H_7O)CH_2Cl$ F.W. 120.58

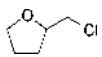
Assay (GC-FID), 95.0% min
Color - Colorless to light yellow

Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 3003-84-7 DOT 3/II

83072	10 G
83071	100 G

Specific Gravity 1.110



TETRAHYDRO-2-(2-PROPYNYLOXY)-2H-PYRAN

See Propargyl Alcohol Tetrahydro-2H-Pyran Ether

2,3,5,6-TETRAKIS (2'-PYRIDYL)-PYRAZINE ITEM 540

Reagent for the spectrophotometric determination of iron. W.I. Stephen, Talanta, 16,939 (1969)

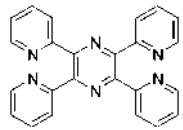
$C_{24}H_{16}N_6$ F.W. 388.44

Melting point 286 C min

Suitability for iron determination - Pass Test

CAS # 25005-97-4 DOT NR

73001	1 G
73002	5 G



TETRAKIS(TETRABUTYLAMMONIUM) ETHYLENEDIAMINETETRAACETATE, 30% SOLUTION ITEM 3779

Not on the TSCA inventory.

$C_{10}H_{14}O_8N_2(N(C_4H_9)_4)_4$ F.W. 1258.09

Concentration 29-31%

CAS # 209482-49-5 DOT NR

13481	100 ML
13482	500 ML

Specific Gravity 1.060

TETRAMETHYLAMMONIUM ACID PHTHALATE

See Tetramethylammonium Hydrogen Phthalate, 99%

TETRAMETHYLAMMONIUM BIPHTHALATE

See Tetramethylammonium Hydrogen Phthalate, 99%

TETRAMETHYLAMMONIUM BROMIDE, REAGENT (ACS) ITEM 1515

$(CH_3)_4NBr$ F.W. 154.06

Assay 98.0% min
Trimethylamine (CH3)3N 0.5%

Appearance White crystals
Trimethylamine hydrobromide (CH3)3N.HBr 0.5%

Polarographic test Pass test

CAS # 64-20-0 DOT 6.1/II NFPA # 3-1-1

72742	100 G
72741	500 G
72743	2.5 KG

TETRAMETHYLAMMONIUM CHLORIDE ITEM 1516

$(CH_3)_4NCl$ F.W. 109.60

Assay 97.0% min

CAS # 75-57-0 DOT 6.1/III NFPA # 3-1-1

72751	500 G

TETRAMETHYLAMMONIUM FLUORIDE, TETRAHYDRATE, 98% ITEM 2726

$(CH_3)_4NF \bullet 4H_2O$ F.W. 165.21

Assay 98% min.

CAS # 17787-40-5 DOT 6.1/III NFPA # 2-1-0

72911	10 G
72912	50 G
72913	250 G

TETRAMETHYLAMMONIUM HEXAFLUOROPHOSPHATE ITEM 2442

$(CH_3)_4NPF_6$ F.W. 219.11

Assay 98.0%

CAS # 558-32-7 DOT 6.1/III

72761	20 G
72762	100 G
72763	500 G
72764	1 KG

TETRAMETHYLAMMONIUM HYDROGEN PHTHALATE, 99% ITEM 2524

$(CH_3)_4NOOCC_6H_4COOH$ F.W. 239.27

Assay 99% min.

CAS # 79723-02-7 DOT 6.1/III

72791	25 G
72792	100 G

TETRAMETHYLAMMONIUM HYDROXIDE, PENTAHYDRATE ITEM 1680

$(CH_3)_4NOH \bullet 5H_2O$ F.W. 181.23

Assay 98% min.
Halide (as Cl) 0.1%
Sodium + potassium 5 ppm
Carbonate 0.75%
Iron 5 ppm

CAS # 10424-65-4 DOT 8/II

73044	25 G
73041	100 G
73042	500 G
73043	2.5 KG

TETRAMETHYLAMMONIUM HYDROXIDE, SOLUTION, 1.0 Mol/L in WATER, REAGENT (ACS) ITEM 2275

$(CH_3)_4NOH$ F.W. 91.15

Concentration 1.0 ± 0.02 mol/L
Chloride 0.03%
Potassium 2 ppm
Color (APHA) 10 max.
Residue after ignition 5 ppm
Sodium 2 ppm

CAS # 75-59-2 DOT 8/II

73061	100 ML
73062	500 ML
73063	4 L

Specific Gravity 1.000

TETRAMETHYLAMMONIUM HYDROXIDE, SOLUTION, 25% in WATER ITEM 1204

$(CH_3)_4NOH$ F.W. 91.15

Concentration 25 ± 1%
Approx. 2.75 M

CAS # 75-59-2 DOT 8/II NFPA # 3-3-1

73051	100 ML
73052	500 ML
73053	4 L

Specific Gravity 1.020

TETRAMETHYLAMMONIUM HYDROXIDE, SOLUTION, 25% in METHANOL ITEM 2523

$(CH_3)_4NOH$ F.W. 91.15

Concentration 24-26%
Water - Report
Halides (as Cl) 1.0%

CAS # 75-59-2 DOT 8/3/II

73011	100 ML
73012	500 ML
73013	4 L
73014	4 X 4 L

Specific Gravity 0.865

TETRAMETHYLAMMONIUM IODIDE ITEM 2443

$(CH_3)_4NI$ F.W. 201.05

Assay 98.0%

CAS # 75-58-1 DOT NR

73082	100 G
73083	500 G

T

TETRAMETHYLAMMONIUM PERCHLORATE — ITEM 510

Suitable for use as polargraphic supporting electrolyte.

$(CH_3)_4NClO_4$ F.W. 173.60

Assay (after drying) 98.0% min. Water (KF) 1-7%
Halogens (as Cl) 0.01%

CAS # 2537-36-2 DOT 5.1/II

73101	10 G
73102	50 G
73103	100 G

TETRAMETHYLAMMONIUM SILICATE, 18%, AQUEOUS SOLUTION — ITEM 2525

Complex mixture of Tetramethylammonium hydroxide and silica in a 1:2 ratio

$(CH_3)_4NOH•2SiO_2$ F.W. 211.32

Concentration 16.5-18.5%

CAS # 53116-81-7 DOT 8/II

73121	100 ML
73122	500 ML

Specific Gravity 1.054

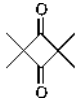
TETRAMETHYL-1,3-CYCLOBUTANEDIONE, 99% — ITEM 2608

$(CH_3)_4C_4O_2$ F.W. 140.18

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms
Appearance - White to off-white crystals

CAS # 933-52-8 DOT NR

73161	5 G
73162	25 G
73163	100 G
73164	500 G



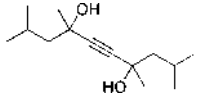
2,4,7,9-TETRAMETHYL-5-DECYN-4,7-DIOL, 98% — ITEM 3315

$[(CH_3)_2CHCH_2C(OH)(CH_3)C]_2≡$ F.W. 266.36

Assay 98% min. Melting point 40-42 C

CAS # 126-86-3 DOT 9/III

83091	250 G



TETRAMETHYLENE GLYCOL DIGLYCIDYL ETHER

See 1,4-Butanediol Diglycidyl Ether

N,N,N',N'-TETRAMETHYLETHYLENEDIAMINE — ITEM 4582

99%

$(CH_3)_2NCH_2CH_2N(CH_3)_2$ F.W. 116.21

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms
Color - 150 APHA max. Clarity / Form - Clear to hazy, liquid

CAS # 110-18-9 DOT 3/6.1/8/II

17811	100 ML

Specific Gravity 0.770

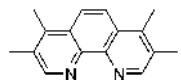
3,4,7,8-TETRAMETHYL-1,10-PHENANTHROLINE, 99% — ITEM 317

$(CH_3)_4C_{12}H_4N_2$ F.W. 236.30

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms

CAS # 1660-93-1 DOT NR

73201	1 G
73202	5 G
73203	50 G
73204	500 G

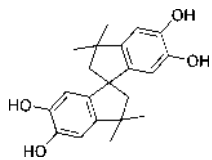


3,3,3',3'-TETRAMETHYL-1,1'-SPIROBISINDANE-5,5',6,6'-TETROL — ITEM 2369

$C_{21}H_{24}O_4$ F.W. 340.42

CAS # 77-08-7 DOT NR

73151	25 G
73152	100 G
73153	500 G



TETRAPHENYLARSONIUM CHLORIDE — ITEM 300

Reagent for the precipitation of perchlorate, permanganate and other anions. NOT on the TSCA Inventory.

$(C_6H_5)_4AsCl•XH_2O$ F.W. 418.77

Melting point 258 C min.

CAS # 507-28-8 DOT 6.1/II NFPA # 4-1-1

73301	5 G
73302	10 G

5,10,15,20-TETRAPHENYL-21H,23H-PORPHINE, 97% — ITEM 2692

TPP. Contains 1-3% of the corresponding chlorin.

$(C_6H_5)_4C_{20}H_{10}N_4$ F.W. 614.75

Assay 97% min.

CAS # 917-23-7 DOT NR

88841	1 G
88842	5 G

5,6,11,12-TETRAPHENYLNAPHTHACENE

See Rubrene

TETRAPHENYLPORPHYRIN MANGANESE (III) CHLORIDE COMPLEX

See Chloride Ionophore I

TETRAPROPYLAMMONIUM CHLORIDE, 98% — ITEM 2527

$(C_3H_7)_4NCl$ F.W. 221.82

Assay 98% min.

CAS # 5810-42-4 DOT NR

73411	10 G
73412	50 G

TETRAPROPYLAMMONIUM HEXAFLUOROPHOSPHATE — ITEM 3500

Not on the TSCA Inventory

$(C_3H_7)_4NPF_6$ F.W. 331.33

Assay 98%

CAS # 12110-21-3 DOT NR

73421	25 G
73422	100 G
73423	500 G

TETRAPROPYLAMMONIUM HYDROXIDE, 1 M, AQUEOUS SOLUTION — ITEM 2528

1 mol/L

$(C_3H_7)_4NOH$ F.W. 203.37

Concentration 1.0 ± 0.1 M

CAS # 4499-86-9 DOT 8/II

73441	25 ML
73442	100 ML
73443	500 ML

Specific Gravity 1.000

TETRASODIUM ETHYLENEDIAMINETETRAACETATE TETRAHYDRATE, REAGENT — ITEM 7081

$(NaO_2CCH_2)_2NC_2H_4N(CH_2CO_2Na)_2 \bullet 4H_2O$ F.W. 452.24

Assay 98% min. Insoluble 0.01%

CAS # 13235-36-4 DOT NR

17791	100 G
17792	500 G
17793	2.5 KG
17794	10 KG
17795	45 KG

TETRASODIUM PYROPHOSPHATE

See Sodium Pyrophosphate, Decahydrate

TETRASULFATOCERIC ACID

See Ceric Sulfate

TETROLIC ACID

See 2-Butynoic Acid

THALLIC OXIDE, 99.99% — ITEM A8139

Tl_2O_3 F.W. 456.77

Assay (metals basis) 99.99% min.

CAS # 1314-32-5 DOT 6.1/II

73590	10 G

THALLIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1818

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 3-0-2

23180	100 ML
23182	500 ML

Specific Gravity 1.030

THALLIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1817

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 3-0-2

23170	100 ML
23172	500 ML

Specific Gravity 1.030

THALLOUS BROMIDE, 99.9% ITEM A8109

TlBr F.W. 284.29

CAS # 7789-40-4 DOT 6.1/II

73651 25 G

THAM

See Trishydroxymethylaminomethane

THIOCARBAMIDE

See Thiourea

THIOGLYCOLIC ACID, REAGENT ITEM 1494

Mercaptoacetic Acid

$C_2H_4O_2S$ F.W. 92.12

Assay 98% min. Residue after ignition 0.05%

CAS # 68-11-1 DOT 8/II

73852 100 G
73851 500 G

Specific Gravity 1.325

THIONYL CHLORIDE, 99% ITEM 2633

$SOCl_2$ F.W. 118.97

Assay 99.0% min

CAS # 7719-09-7 DOT 8/I NFPA # 4-0-2

73881 100 ML
73882 1 L
73883 4L

Specific Gravity 1.631

THIOUREA, REAGENT (ACS) ITEM 564

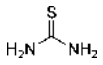
Masking and colorimetric reagent for various metal ions. Precipitation reagent for lead, cadmium, selenium, bismuth and tellurium.

NH_2CSNH_2 F.W. 76.12

Assay 99.0% min
Loss on drying 0.5%
Solubility in water Pass test
Residue after ignition 0.1%
Melting Point 174-177 C
Sensitivity to bismuth Pass test

CAS # 62-56-6 DOT 6.1/III NFPA # 3-1-1

74000 100 G
74001 500 G
74002 2.5 KG
74003 10 KG
74004 50 KG



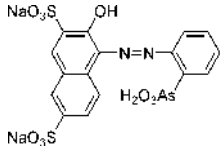
THORIN ITEM 565

Reagent for thorium, beryllium and certain other metals. Not on the TSCA inventory

$(HO)_2AsOC_6H_4N{=}NC_{10}H_4(OH)(SO_3Na)_2$ F.W. 576.30

CAS # 3688-92-4 DOT 6.1/II NFPA # 4-1-1

74201 1 G
74202 10 G



THORIUM, 10,000 ppm ICP STANDARD SOLUTION ITEM 1820

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 3-0-2

23200 100 ML
23202 500 ML

Specific Gravity 1.030

THORIUM, 1,000 ppm ICP STANDARD SOLUTION ITEM 1819

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 3-0-2

23190 100 ML
23192 500 ML

Specific Gravity 1.030

THULIUM, 10,000 ppm ICP STANDARD SOLUTION ITEM 1822

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III

23220 100 ML
23222 500 ML

Specific Gravity 1.030

THULIUM, 1,000 ppm ICP STANDARD SOLUTION ITEM 1821

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III

23210 100 ML
23212 500 ML

Specific Gravity 1.030

THULIUM ACETATE, 99.9% **ITEM 2240**

$Tm(OOCCH_3)_3 \bullet XH_2O$ F.W. 346.07

CAS # 314041-04-8 DOT NR

26391 5 G

THULIUM ACETYLACETONATE **ITEM 5175**

Not on the TSCA inventory. For R&D use only.

$Tm(C_5H_7O_2)_3$ F.W. 466.25

Thulium content 35.5 - 37.0%

CAS # 14589-44-7 DOT NR

13511 1 G
13512 5 G

THULIUM CHLORIDE, 99.9% **ITEM 2241**

$TmCl_3 \bullet 7H_2O$ F.W. 401.40

Assay (metals basis) 99.9% min Thulium content 40.3-44.1%

CAS # 10025-92-0 DOT NR

26401 5 G

THULIUM CHLORIDE, 99% **ITEM A8220**

$TmCl_3 \bullet 7H_2O$ F.W. 401.40

CAS # 10025-92-0 DOT NR

74431 5 G

THULIUM FLUORIDE, 99.9% **ITEM A8229**

$TmF_3 \bullet xH_2O$ F.W. 225.93 + XH2O

CAS # 13760-79-7 DOT NR

74451 1 G

THULIUM NITRATE, 99.99% **ITEM 2244**

$Tm(NO_3)_3 \bullet 5H_2O$ F.W. 445.04

CAS # 36548-87-5 DOT 5.1/III

26431 5 G

THULIUM OXALATE, 99.9% **ITEM 2242**

$Tm_2(C_2O_4)_3 \bullet XH_2O$ F.W. 601.93

Assay (metals basis) 99.9% min. Thulium content (gravimetric) 51.2-53.2%

CAS # 3269-17-8 DOT NR

26411 5 G

THULIUM OXIDE, 99.99% **ITEM 2245**

Tm_2O_3 F.W. 385.86

Assay (metals basis) 99.99% min.

CAS # 12036-44-1 DOT NR

26441 5 G

THULIUM OXIDE, 99.9% **ITEM 642**

Tm_2O_3 F.W. 385.86

Assay (metals basis) 99.9% min.

CAS # 12036-44-1 DOT NR

74506 1 G
74501 5 G
74502 25 G

THULIUM PERCHLORATE, HYDRATED, 50% SOLUTION, REAGENT **ITEM 643**

$Tm(ClO_4)_3 \bullet 6H_2O$ F.W. 575.38

Thulium content 14.1-15.3% Insoluble 0.01%
Chloride 0.01%

CAS # 14014-10-9 DOT NR

74601 20 G
74602 50 G

THULIUM SULFATE, 99.9% **ITEM 2243**

$Tm_2(SO_4)_3 \bullet 8H_2O$ F.W. 770.17

CAS # 13778-40-0 DOT NR

26421 5 G

THULIUM TRIFLATE

See Thulium Trifluoromethanesulfonate, 97%

THULIUM TRIFLUOROMETHANESULFONATE, 97% **ITEM 3546**

Not on the TSCA inventory

$Tm(CF_3SO_3)_3$ F.W. 616.14

Assay 97% min.

CAS # 141478-68-4 DOT NR

74641 1 G
74642 5 G

THYMOL BLUE, FREE ACID, REAGENT (ACS) — ITEM 1895

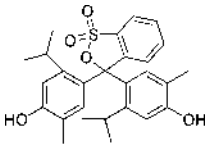
Thymolsulfonphthalein

$C_{27}H_{30}O_5S$ F.W. 466.60

Clarity of solution Pass test Visual transition pH 1.2-2.8, pink-yellow
Visual transition pH 8.0-9.2, yellow-blue

CAS # 76-61-9 DOT NR

74662 5 G
74663 25 G



THYMOL BLUE, SODIUM SALT, REAGENT (ACS) — ITEM 820

Thymolsulfonphthalein. Water soluble pH indicator.

$C_{27}H_{29}O_5SNa$ F.W. 488.58

Clarity of solution Pass Test Visual transition pH 1.2-2.8, pink-yellow
Visual transition pH 8.0-9.2, yellow-blue

CAS # 62625-21-2 DOT NR NFPA # 1-1-1

74652 5 G
74653 25 G
74654 1 KG

THYMOL BLUE, SOLUTION, 0.04% AQUEOUS — ITEM 2161

$C_{27}H_{29}O_5SNa$ F.W. 488.58

Visual transition interval Red to yellow pH indicator range 1.2-2.8
Visual transition interval Yellow to blue pH indicator range 8.0-9.2

CAS # 62625-21-2 DOT NR

25601 500 ML

Specific Gravity 1.000

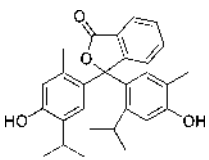
THYMOLPHTHALEIN, REAGENT (ACS) — ITEM 821

$C_{28}H_{30}O_4$ F.W. 430.55

Clarity of solution - pass test Visual transition pH 8.8-10.5, colorless-blue

CAS # 125-20-2 DOT NR NFPA # 1-1-1

74701 10 G
74702 25 G



THYMOLSULFONPHTHALEIN

See Thymol Blue, Sodium Salt

TIN, METAL, 99.999% — ITEM A8259

Shot

Sn F.W. 118.71

Assay (Metals basis) 99.999%

CAS # 7440-31-5 DOT NR NFPA # 0-0-0

74790 10 G
74791 50 G

TIN, METAL, REAGENT (ACS) — ITEM 710

Sn F.W. 118.71

Assay 99.5% min. Antimony 0.02%
Arsenic 0.0001% Copper 0.005%
Iron 0.01% Lead 0.005%

CAS # 7440-31-5 DOT NR NFPA # 0-0-0

74801 100 G
74802 500 G

TIN, MOSSY 99.5% — ITEM 3776

Sn F.W. 118.71

Assay (metals basis) 99.5%

CAS # 7440-31-5 DOT NR

13541 100 G
13542 500 G

TIN, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1824

Concentration 10,000 ± 100 ug/ml Matrix: 20% Hydrochloric acid
NIST Traceable

DOT 8/II NFPA # 3-0-2

23240 100 ML
23242 500 ML

Specific Gravity 1.040

TIN, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1823

Concentration 1,000 ± 10 ug/ml Matrix: 20% Hydrochloric acid
NIST Traceable

DOT 8/II NFPA # 3-0-2

23230 100 ML
23232 500 ML

Specific Gravity 1.040

TIN, 1,000 ppm STANDARD SOLUTION — ITEM 764

AA, colorimetric or volumetric standard

Concentration 1,000 ± 10 ug/ml Matrix: <5% Hydrochloric acid
NIST Traceable

DOT 8/III NFPA # 2-0-0

70340	100 ML
70342	500 ML

Specific Gravity 1.020

TIN (II) CHLORIDE

See Stannous Chloride, Dihydrate

TIN TRIFLATE

See Stannous Trifluoromethanesulfonate, 97%

TIPS CHLORIDE

See Chlorotriisopropylsilane, 98%

TISAB II, SOLUTION, FOR FLUORIDE — ITEM 2163

APHA & ASTM By the Specific Ion Method

Suitability as buffer - Pass Test pH 5.3 - 5.5

DOT NR

25621	4 L
25622	4 X 4 L
25623	20 L

Specific Gravity 1.078

TITANIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1826

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid w/trace HF
NIST Traceable

DOT 8/II NFPA # 4-0-2

23260	100 ML
23262	500 ML

Specific Gravity 1.030

TITANIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1825

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid w/trace HF
NIST Traceable

DOT 8/II NFPA # 4-0-2

23250	100 ML
23252	500 ML

Specific Gravity 1.030

TITANIUM BORIDE — ITEM A8358

200 mesh

TiB_2 F.W. 69.50

CAS # 12045-63-5 DOT NR

74721	50 G

TITANIUM DIOXIDE, 99.998% — ITEM 5073

Titanium (IV) Oxide

TiO_2 F.W. 79.90

Assay (metals basis) 99.998%

CAS # 13463-67-7 DOT NR

87691	5 G
87692	25 G

TITANIUM DIOXIDE, REAGENT — ITEM 1205

-325 mesh

TiO_2 F.W. 79.90

Water soluble salts 0.25% Arsenic 0.0002%
Lead 0.02% Iron 0.01%
Zinc 0.01%

CAS # 13463-67-7 DOT NR NFPA # 0-0-0

74831	500 G
74832	2.5 KG
74833	10 KG
74834	50 KG

TITANIUM HYDRIDE, 98% — ITEM A8367

TiH_2 F.W. 49.90

Assay (metals basis) 98.0% min

CAS # 7704-98-5 DOT 4.1/II

74761	100 G

TITANIUM ISOPROPOXIDE — ITEM 3607

$[(CH_3)_2CHO]_4Ti$ F.W. 284.26

TiO2 Content, 27.5 - 28.2%

CAS # 546-68-9 DOT 3/III NFPA # 2-3-1

74711	100 ML
74712	500 ML
74713	2.5 L
74714	19 L

Specific Gravity 0.937

TITANIUM MONOXIDE

See Titanium (II) Oxide, 99.9%

T

TITANIUM (II) OXIDE, 99.5%, POWDER — ITEM 2556

Titanium Monoxide. Nominally -325 mesh powder

TiO F.W. 63.88

Assay (metals basis) 99.5% min. Particle size (Microtrac analysis) -325 mesh 95%

CAS # 12137-20-1 DOT NR

74732 25 G
74733 100 G

TITANIUM (II) OXIDE, 99.9%, LUMPS — ITEM A8373

Titanium Monoxide

TiO F.W. 63.88

Assay (metals basis) 99.9% min.

CAS # 12137-20-1 DOT NR

74785 25 G
74781 100 G

TITANIUM (IV) OXIDE

See Titanium Dioxide

TITANIUM OXYSULFATE

See Titanium Sulfate, Purified

T

TITANIUM SULFATE, PURIFIED — ITEM 1050

Titanyl Sulfate

$TiOSO_4 \bullet xH_2O$ F.W. 159.96 + XH2O

Assay (as TiOSO4) 65% min. Free sulfuric acid 10% max.

CAS # 13825-74-6 DOT NR NFPA # 2-0-0

74852 100 G
74851 500 G

TITANIUM TETRA-n-BUTOXIDE — ITEM 3608

$[CH_3(CH_2)_3O]_4Ti$ F.W. 340.36

Titanium content, 13.8% - 14.5%

CAS # 5593-70-4 DOT 3/III

74671 50 G
74672 500 G

Specific Gravity 0.998

TITANIUM TETRAETHOXIDE, TECHNICAL — ITEM 3610

$(C_2H_5O)_4Ti$ F.W. 228.15

Assay (as Ti) 19.3 - 21.0%

CAS # 3087-36-3 DOT 3/III

74691 50 G
74692 250 G
74693 1 KG
74694 4 KG
74695 18 KG

Specific Gravity 1.088

TITANIUM TETRAFLUORIDE, 99% — ITEM A8403

Not on the TSCA inventory

TiF_4 F.W. 123.87

CAS # 7783-63-3 DOT 6.1/III

74841 25 G

TITANYL ACETYLACETONATE — ITEM A8414

$(C_5H_7O_2)_2TiO$ F.W. 262.10

CAS # 14024-64-7 DOT NR

74881 25 G

TITANYL SULFATE

See Titanium Sulfate, Purified

TITRATION SOLVENT, ASTM D664, section 7.18 — ITEM 1281

See also electrolyte solution

Density (g/ml) at 25 C, 0.817 to 0.827
Titrable acid or base, 0.0001 meq/g max
H2O (KF), 0.4% to 0.6%
Appearance - Clear, colorless liquid
Suitability - Pass Test made in accordance to ASTM D664, section 7.18

DOT 3/II NFPA # 2-3-0

74911 4 L
74912 4 X 4 L

Specific Gravity 0.827

TITRATION SOLVENT, ASTM D2896 — ITEM 9031

Suitability - Pass test
Clarity / Form - Clear, liquid
Color - Colorless to very faint yellow

DOT 3/8/III NFPA # 2-3-1

74926 4 L
74927 4 X 4 L
86521 20 L Min 10

Specific Gravity 1.080

TITRATION SOLVENT, ASTM D4739 SEC 7.15 — ITEM 9032

Protect from light.

Suitability - Pass test
Neutral solution 0 mV or pH 7 ± 0.3

Appearance - Clear, colorless solution made in accordance to ASTM D4739, section 7.15

DOT 3/II NFPA # 3-3-1

74976	4 L
74977	4 X 4 L
86531	20 L

Specific Gravity 1.047

TITRATION SOLVENT, ACIDIC — ITEM 1896

ASTM D3227 6.9.2

DOT 3/II NFPA # 1-3-1

74971	4 L
74972	4 X 4 L

Specific Gravity 0.790

TMETP

See 1,1,1-Trimethylolethane Tripropiolate

TMS CHLORIDE

See Chlorotrimethylsilane, 98+%

TMS TRIFLATE

See Trimethylsilyl Trifluoromethanesulfonate 99%

TOLAN

See Diphenylacetylene, 98%

o-TOLIDINE, 97% — ITEM 1110

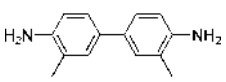
$[C_6H_3(CH_3)(NH_2)]_2$ F.W. 212.30

Assay (Non-aqueous titration), 96.5% - 103.5%
H2O (KF), 3.0% max
Solubility in dilute acid - Pass test

Assay (GC-FID), 96.5% min
Sensitivity to chlorine - Pass test
Appearance - White to off-white solid

CAS # 119-93-7 DOT 6.1/III

74891	25 G
74892	100 G
74893	500 G
74894	2.5 KG
74895	10 KG



o-TOLIDINE DIHYDROCHLORIDE, REAGENT (ACS) — ITEM 1051

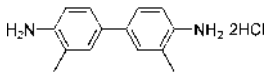
$[C_6H_3(NH_2)(CH_3)]_2 \bullet 2HCl$ F.W. 285.22

Residue after ignition, 0.1% max
Solubility - Pass test

Sensitivity to chlorine - Pass test

CAS # 612-82-8 DOT 9/III NFPA # 3-1-1

74906	25 G
74901	100 G
74902	500 G
74903	2.5 KG
74904	10 KG
74905	25 KG



TOLUENE, VERITAS® ULTIMATE — ITEM 5577

$C_6H_5CH_3$ F.W. 92.14

Assay 99.9% min
FID responsive substances 10 ug/L
UV cut-off 285 nm
UV at 293 nm 0.2 AU max
UV at 350 nm 0.01 AU max
Water 0.02%

ECD responsive substances 5 pg/ml
Residue after evaporation 0.0003%
UV at 288 nm 0.4 AU max
UV at 300 nm 0.1 AU max
Color (APHA) 10 max

CAS # 108-88-3 DOT 3/II NFPA # 2-3-0

18161	4 L
18162	4 X 4 L

Specific Gravity 0.867

TOLUENE, DISTILLED IN GLASS — ITEM 1245

Suitable for pesticide analysis, gas chromatography, liquid chromatography and spectrophotometry.

$C_6H_5CH_3$ F.W. 92.14

Assay (GLC) 99.7% min
Water 0.03%

Chlorinated hydrocarbon residue 10 pg/ml
Residue after evaporation 0.0003%

CAS # 108-88-3 DOT 3/II NFPA # 2-3-0

74943	1 L
74944	6 X 1 L
74941	4 L
74942	4 X 4 L

Specific Gravity 0.867

T

TOLUENE, HPLC — ITEM 2493

Also meets ACS specifications

$C_6H_5CH_3$ F.W. 92.14

Assay 99.8% min.
Residue after evaporation 0.0001%
Sulfur compounds 0.003%
UV Absorbance at 286 nm 1.00
UV Absorbance at 350 nm 0.01
Color (APHA) 10 max.
Substances darkened by H2SO4 - pass test
Water 0.01%
UV Absorbance at 300 nm 0.10

CAS # 108-88-3 DOT 3/II NFPA # 2-3-0

75011	1 L
75012	6 X 1 L
75013	4 L
75014	4 X 4 L

Specific Gravity 0.867

TOLUENE, HALOGEN FREE — ITEM 2347

For use with Organic Halogen Reagent

$C_6H_5CH_3$ F.W. 92.14

Assay (GLC) 99.5% min.
Residue after evaporation 0.001%
Sulfur compounds 0.003%
Halogens 0.1 ppm
Color (APHA) 10 max.
Substances darkened by H2SO4 - Pass Test
Water 0.03%

CAS # 108-88-3 DOT 3/II NFPA # 2-3-0

74991	1 L
74992	6 X 1 L
74993	4 L
74994	4 X 4 L

Specific Gravity 0.867

TOLUENE, REAGENT (ACS) — ITEM 1052

$C_6H_5CH_3$ F.W. 92.14

Assay (GLC) 99.5% min
Residue after evaporation 0.001%
Sulfur compounds 0.003%
Color (APHA) 10 max
Substances darkened by H2SO4 - Pass Test
Water 0.03%

CAS # 108-88-3 DOT 3/II NFPA # 2-3-0

74954	1 L
74955	6 X 1 L
74952	4 L
74953	4 X 4 L
74956	20 L

Specific Gravity 0.867

p-TOLUENESULFONIC ACID, MONOHYDRATE, REAGENT (ACS) — ITEM 2416

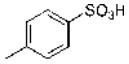
4-Methylbenzenesulfonic Acid Monohydrate

$CH_3C_6H_4SO_3H•H_2O$ F.W. 190.22

Assay 98.5% min
Water 9.5-11.5%
Sulfate 0.3%
Iron 0.01%
Clarity of solution - Passes test
Residue after ignition 0.1%
Heavy Metals (as Pb) 0.001%
Sodium 0.002%

CAS # 6192-52-5 DOT 8/III NFPA # 3-1-0

88331	100 G
88332	500 G
88334	10 KG
88333	100 KG



p-TOLUENESULFONYL CHLORIDE, 98% — ITEM 2770

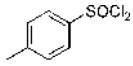
Tosyl chloride

$CH_3C_6H_4SO_2Cl$ F.W. 190.65

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms

CAS # 98-59-9 DOT 8/III NFPA # 2-1-1

75021	500 G
75022	2.5 KG



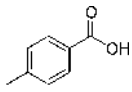
p-TOLUIC ACID, 98% — ITEM 2771

$CH_3C_6H_4CO_2H$ F.W. 136.15

Assay 98% min.

CAS # 99-94-5 DOT NR

75061	100 G
75062	500 G



o-TOLUIDINE, 98+%, REAGENT — ITEM 1111

Not stabilized. Packed under inert gas. May discolor on storage.

$CH_3C_6H_4NH_2$ F.W. 107.16

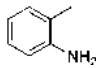
Assay (GC-FID), 98.0% min

Appearance - Clear, colorless to tan/brown liquid

CAS # 95-53-4 DOT 6.1/II NFPA # 3-2-2

74961	500 ML
74962	4 L
74963	4 X 4 L

Specific Gravity 1.004



m-TOLUIDINE, 99% — ITEM 3517

$CH_3C_6H_4NH_2$ F.W. 107.16

Assay (GC-FID), 98.5% min

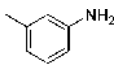
Color - Yellow to amber

Clarity / Form - Clear, liquid

CAS # 108-44-1 DOT 6.1/II NFPA # 2-2-0

75041	250 ML
75042	1 L

Specific Gravity 0.980



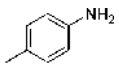
p-TOLUIDINE, 99%, FLAKE — ITEM 2772

$CH_3C_6H_4NH_2$ F.W. 107.16

Assay 99% min.

CAS # 106-49-0 DOT 6.1/II

75071	250 G
75072	1 KG



4-TOLYLACETYLENE

See 4-Ethynyltoluene, 97%

TOSYL CHLORIDE

See p-Toluenesulfonyl Chloride, 98%

TOTAL IONIC STRENGTH ADJUSTMENT BUFFER II

See TISAB II, Solution

TOTAL ORGANIC CARBON STANDARD, 1000 ppm — ITEM 5231

KHP in water

Total organic carbon 1000 ± 10 ppm Matrix: Phosphoric acid <1%

DOT NR

17511	100 ML
17512	500 ML

TPT

See 2,4,6-Tri(4-Pyridyl)-1,3,5-Triazine, 98%

TPTZ

See 2,4,6-Tri(2-Pyridyl)-1,3,5-Triazine

TPTZ FERROUS SULFATE, SOLUTION, 0.00050 Mol/L — ITEM 391

Reagent solution for the determination of microgram amounts of EDTA, B Kratochvil and M.C. White, Anal. Chem., 37, 111 (1965)

$(C_3N_3(C_5H_4N)_3)_2FeSO_4$ F.W. 776.58

CAS # 68510-43-0 DOT NR

75621	500 ML
75622	4 L

Specific Gravity 1.000

TRANS-DECALIN

See Trans-Decahydronaphthalene, 99%

2,4,6-TRIAMINO-1,3,5-TRIAZINE

See Melamine, 99%

1,3,5-TRIAZINE-2,4,6-TRIOL

See Cyanuric Acid

TRIBUTYLAMINE, 98% — ITEM 2773

$[CH_3(CH_2)_3]_3N$ F.W. 185.36

Assay (GC-FID), 97.5% min

CAS # 102-82-9 DOT 6.1/II

75082	500 ML
75083	2.5 L
75084	20 L
75085	56 L

Specific Gravity 0.778

TRIBUTYLETHYNYLTIN

See Tributylstannylacetylene

TRIBUTYLMETHYLAMMONIUM CHLORIDE

See Aliquat 175

TRIBUTYL PHOSPHATE, 98+% ITEM 5190

$[CH_3(CH_2)_3O]_3PO$ F.W. 266.32

Assay (GC-FID), 98.0% min Appearance - Clear to hazy, colorless liquid

CAS # 126-73-8 DOT NR NFPA # 2-1-0

13571	100 ML
13572	1 L
13573	4 L

Specific Gravity 0.979

TRIBUTYLSTANNYLACETYLENE, 95% ITEM 3485

Not on the TSCA inventory. For R&D use only.

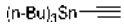
$(C_4H_9)_3SnC{\equiv}CH$ F.W. 315.07

Assay (GC-FID), 94% min Identification by GC/MS - Conforms

CAS # 994-89-8 DOT 6.1/III

10111	1 G
10112	5 G
10113	25 G

Specific Gravity 1.092



TRICALCIUM PHOSPHATE, -100 MESH, BETA PHASE ITEM 2997

Not approved for use in areas governed by FDA oversight.

$Ca_3(PO_4)_2$ F.W. 310.18

X-ray powder diffraction - confirms beta phase Moisture (by KF) 0.05%
Particle size -100 mesh 95%

CAS # 7758-87-4 DOT NR

19581	10 G
19582	50 G
19583	250 G
19584	1 KG

TRICHLOROACETIC ACID, REAGENT (ACS) ITEM 390

CCl_3COOH F.W. 163.40

Assay 99.0% min Clarity of solution - Pass test
Insoluble matter 0.01% Residue after ignition 0.03%
Chloride 0.002% Nitrate 0.002%
Phosphate 0.0005% Sulfate 0.02%
Heavy metals (as Pb) 0.002% Iron 0.001%
Substances darkened by sulfuric acid - Pass Test

CAS # 76-03-9 DOT 8/II NFPA # 3-1-1

75001	100 G
75002	500 G
75004	2.5 KG

TRICHLOROETHYLENE, REAGENT (ACS) ITEM 1053

C_2HCl_3 F.W. 131.39

Color (APHA) 10 max. Assay (GLC) 99.5% min
Residue after evaporation 0.001% Titrable acid 0.0001 meq/g
Titrable base 0.0003 meq/g Water 0.02%
Heavy metals (as Pb) 0.0001% Free halogens Pass Test
Stabilizers 1,2-butylene oxide and 1-propanol 2%

CAS # 79-01-6 DOT 6.1/III NFPA # 2-1-0

75031	500 ML
75032	4 L
75033	4 X 4 L
75034	20 L

Specific Gravity 1.458

TRICHLOROETHYLENE, 98% ITEM 5534

Contains stabilizer.

C_2HCl_3 F.W. 131.39

Assay (GC-FID excluding stabilizer), 97.5% min Appearance - Clear, colorless liquid

CAS # 79-01-6 DOT 6.1/III NFPA # 2-1-0

17441	500 ML

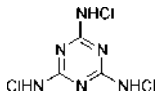
TRICHLOROMELAMINE, 95% ITEM 2938

$C_3N_3(NHCl)_3$ F.W. 229.46

Assay 95% min

CAS # 7673-09-8 DOT 8/III NFPA # 3-1-3

75056	100 G
75057	500 G



10,12-TRICOSADIYNOIC ACID, 97% ITEM 3316

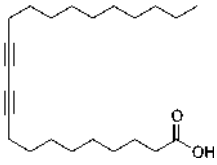
Light sensitive. Not on the TSCA inventory.

$CH_3(CH_2)_9C{\equiv}CC{\equiv}C(CH_2)_8COOH$ F.W. 346.55

Assay (GC-FID by Esterification), 96.5% min
Identification by GC/MS - Conforms
Assay (HPLC - Area % at 226 nm), 96.5% min
Color - White to light blue
Clarity / Form - Waxy flakes, powder

CAS # 66990-30-5 DOT 9/III

83105	1 G
83101	5 G
83102	25 G
83103	100 G
83104	1 KG



1-TRIDECENE, 97% ITEM 3318

$CH_3(CH_2)_{10}CH{=}CH_2$ F.W. 182.35

Assay (GC-FID), 96.5% min
Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 2437-56-1 DOT 9/III

83123	5 G
83121	25 G
83122	100 G

Specific Gravity 0.766

trans-4-TRIDECEN-1-OL, 95% ITEM 3319

Not on the TSCA inventory.

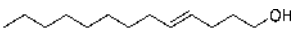
$CH_3(CH_2)_7CH{=}CH(CH_2)_3OH$ F.W. 198.35

Assay 95% min.
Boiling point 128 C @ 9 mm Hg

CAS # 75568-02-4 DOT NR

83131	1 G
83132	5 G

Specific Gravity 0.871



1-TRIDECYNE, 97% ITEM 3321

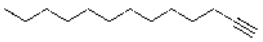
$CH_3(CH_2)_{10}C{\equiv}CH$ F.W. 180.34

Assay (GC-FID), 96.5% min
Identification by GC/MS - Conforms

CAS # 26186-02-7 DOT 9/III

Please Inquire For Sizes

Specific Gravity 0.773



2-TRIDECYN-1-OL, 97% ITEM 3966

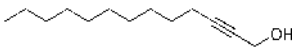
Not on the TSCA inventory.

$CH_3(CH_2)_9C{\equiv}CCH_2OH$ F.W. 196.33

Assay (GC-FID), 96.5% min
Identification by GC/MS - Conforms

CAS # 51887-25-3 DOT NR

17091	10 G
17092	50 G
17093	250 G



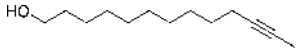
11-TRIDECYN-1-OL ITEM 3967

Not on the TSCA inventory.

$CH_3C{\equiv}C(CH_2)_9CH_2OH$ F.W. 196.33

CAS # 33925-75-6

Please Inquire For Sizes



TRIDODECYLMETHYLAMMONIUM CHLORIDE, 98% ITEM 2930

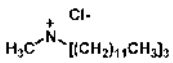
Methyltridodecylammonium chloride

$CH_3[CH_3(CH_2)_{11}]_3NCl$ F.W. 572.49

Assay 98% min.

CAS # 7173-54-8

28711	100 MG
28712	1 G



T

TRIETHANOLAMINE, REAGENT — ITEM 1054

$N(CH_2CH_2OH)_3$ F.W. 149.19

Assay, 98.5% min.
H2O (KF), 0.2% max
Specific gravity 1.124-1.127 25/25
Iron, 0.001% max

CAS # 102-71-6 DOT NR NFPA # 1-1-0

75101	500 ML
75102	4 L

Specific Gravity 1.124

TRIETHANOLAMINE, 0.5 N, AQUEOUS SOLUTION — ITEM 9053

0.5 mol/L

$N(CH_2CH_2OH)_3$ F.W. 149.19

Concentration 0.500 ± 0.001 N

CAS # 102-71-6 DOT NR NFPA # 1-1-1

75097	4 L
75098	4 X 4 L

TRIETHANOLAMINE, 0.2 N, AQUEOUS SOLUTION — ITEM 2790

$N(CH_2CH_2OH)_3$ F.W. 149.19

Concentration 0.200 ± 0.001 N

CAS # 102-71-6 DOT NR NFPA # 1-1-1

75093	4 L
75094	4 X 4 L

Specific Gravity 1.005

TRIETHOXYMETHANE

See Triethyl Orthoformate, 98%

TRIETHYLAMINE, 99% — ITEM 2774

$(CH_3CH_2)_3N$ F.W. 101.19

Assay (GC-FID), 98.5% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 121-44-8 DOT 3/8/II NFPA # 3-3-0

75122	500 ML
75123	4 L
75124	200 L

Specific Gravity 0.726

TRIETHYLCHLOROSILANE

See Chlorotriethylsilane, 98+%

TRIETHYLENEGLYCOL, 99% — ITEM 5465

$HOCH_2CH_2OCH_2CH_2OCH_2CH_2OH$ F.W. 150.17

Assay (GC-FID), 98.5% min
Appearance - Clear, colorless liquid

CAS # 112-27-6 DOT NR

16341	100 ML
16342	500 ML
16343	2.5 L

Specific Gravity 1.100

TRIETHYL ORTHOFORMATE, 98% — ITEM 5468

$CH(OCH_2CH_3)_3$ F.W. 148.20

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 122-51-0 DOT 3/III

16362	500 ML
16363	2 L

Specific Gravity 0.900

TRIETHYL PHOSPHATE, 99% — ITEM 5313

$(C_2H_5O)_3PO$ F.W. 182.16

Assay (GC-FID), 98.5% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 78-40-0 DOT NR

16371	100 ML
16372	500 ML
16373	2 L
16374	4 L
16375	20 L

Specific Gravity 1.072

TRIETHYLSILANE, 97% — ITEM 3324

$(C_2H_5)_3SiH$ F.W. 116.28

Assay, (GC-FID), 96.5% min
Appearance - Clear, colorless to yellow liquid
Identification by GC/MS - Conforms

CAS # 617-86-7 DOT 3/II

83183	5 G
83181	25 G
83182	100 G

Specific Gravity 0.731

(TRIETHYLSILYL)ACETYLENE, 97% ITEM 3325

Not on the TSCA inventory.

$(C_2H_5)_3SiC{\equiv}CH$ F.W. 140.30

Assay (GC-FID), 96.5% min
Color - Colorless
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid

CAS # 1777-03-3 DOT 3/II

83191	10 G
83192	50 G
83193	250 G
83194	1 KG
83195	2.5 KG

Specific Gravity 0.786

4-(TRIETHYLSILYL)-3-BUTYN-1-OL, 98% ITEM 3326

Not on the TSCA inventory.

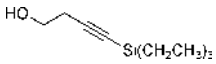
$(C_2H_5)_3SiC{\equiv}C(CH_2)_2OH$ F.W. 184.35

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 160194-29-6 DOT 9/III

83201	5 G
83202	25 G

Specific Gravity 0.885



TRIETHYLSILYL CHLORIDE

See Chlorotriethylsilane, 98+%

5-(TRIETHYLSILYL)-4-PENTYN-1-OL, 96% ITEM 3327

Not on the TSCA inventory.

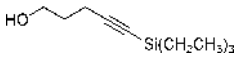
$(C_2H_5)_3SiC{\equiv}C(CH_2)_3OH$ F.W. 198.38

Assay (GC-FID), 95.0% min
H2O (KF), 0.5% max
Identification by GC/MS - Conforms

CAS # 174064-02-9 DOT 9/III

83211	5 G
83212	25 G

Specific Gravity 0.860



1-TRIETHYLSILYL-4-(TRIETHYLSILYLOXY)-1-BUTYNE, 96% ITEM 3328

Not on the TSCA inventory.

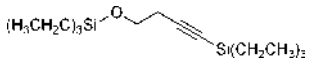
$(C_2H_5)_3SiO(CH_2)_2C{\equiv}CSi(C_2H_5)_3$ F.W. 298.62

Assay (GC-FID), 95.0% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 160194-28-5 DOT 9/III

83221	5 G
83222	25 G

Specific Gravity 0.834



TRIETHYLSILYL TRIFLUOROMETHANESULFONATE, 99% ITEM 3329

Not on the TSCA inventory.

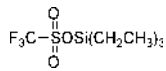
$CF_3SO_3Si(C_2H_5)_3$ F.W. 264.34

Assay 99% min.

CAS # 79271-56-0 DOT 8/II

83231	10 G
83232	50 G

Specific Gravity 1.169



TRIFLIC ACID

See Trifluoromethanesulfonic Acid, 98%

TRIFLUOROACETIC ACID, BIO-REFINED™ ITEM 2983

CF_3COOH F.W. 114.02

Assay 99.9% min.
Residue after evaporation 0.0002%
UV absorbance @ 230 nm 0.15 (0.1% in water)
Water 0.05%
Color (APHA) 10 max.
UV absorbance @ 254 nm 0.01 (0.1% in water)

CAS # 76-05-1 DOT 8/I

83256	100 ML
83257	500 ML

Specific Gravity 1.484

T

TRIFLUOROACETIC ACID, 99.5% ITEM 3331

Perfluoroacetic acid

CF_3COOH F.W. 114.02

Assay (Acid-base titration) 99.5% min. Appearance - Clear, colorless liquid

CAS # 76-05-1 DOT 8/I

83251	100 G
83252	250 G
83253	1 KG

Specific Gravity 1.484

TRIFLUOROACETIC ANHYDRIDE, 99% ITEM 3332

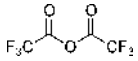
$(CF_3CO)_2O$ F.W. 210.03

Assay 99% min.

CAS # 407-25-0 DOT 8/II NFPA # 3-0-1

83261	100 G
83262	500 G

Specific Gravity 1.487



2,2,2-TRIFLUOROETHANOL, 99% ITEM 2577

CF_3CH_2OH F.W. 100.04

Assay (GC-FID), 98.5% min Appearance - Clear, colorless liquid

CAS # 75-89-8 DOT 3/6.1/III

75151	50 G
75152	250 G
75153	1 KG

Specific Gravity 1.468

TRIFLUOROMETHANESULFONIC ACID, 98% ITEM 3333

Triflic acid

CF_3SO_3H F.W. 150.07

Assay (Titration), 97.5% - 102.5% Appearance - Clear, colorless liquid

CAS # 1493-13-6 DOT 8/II NFPA # 3-0-2

83276	1 KG
83273	3 KG

Specific Gravity 1.700

TRIFLUOROMETHANESULFONIC ANHYDRIDE ITEM 4169

$(CF_3SO_2)_2O$ F.W. 282.13

CAS # 358-23-6

17641	50 KG

Specific Gravity 1.677

3,4,5-TRIHYDROXYBENZOIC ACID

See Gallic Acid, Monohydrate

2,4,6-TRIHYDROXY-1,3,5-TRIAZINE

See Cyanuric Acid

TRIISOPROPANOLAMINE, 95% ITEM 5469

$(CH_3CH(OH)CH_2)_3N$ F.W. 191.27

Assay (GC-FID), 94.0% min Appearance - White to off-white solid

CAS # 122-20-3 DOT NR

16391	100 G
16392	500 G

TRIISOPROPYLCHLOROSILANE

See Chlorotriisopropylsilane, 98%

TRIISOPROPYLSILANE, 98% ITEM 3336

Not on the TSCA inventory.

$[(CH_3)_2CH]_3SiH$ F.W. 158.36

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 6485-79-6 DOT 3/III

83300	5 G
83301	25 G
83302	100 G
83303	1 KG
83304	14 KG

Specific Gravity 0.773

TRIISOPROPYLSILYLACETYLENE, 97% ITEM 3337

Not on the TSCA inventory.

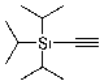
$[CH(CH_3)_2]_3SiC{\equiv}CH$ F.W. 182.38

Assay (GC-FID) - 96.5% min. Identification by GC/MS - Conforms
Color - 50 APHA max. Clarity / Form - Clear Liquid

CAS # 89343-06-6 DOT 3/III NFPA # 2-2-0

83311	10 G
83312	50 G
83313	250 G
83314	1 KG

Specific Gravity 0.813



TRIISOPROPYLSILYL CHLORIDE

See Chlorotriisopropylsilane, 98%

6,13-bis(TRIISOPROPYLSILYLETHYNYL) PENTACENE ITEM 9478

Not on the TSCA inventory.

$C_{44}H_{54}Si_2$ F.W. 639.07

NMR - Conforms to standard

CAS # 373596-08-8

20811	1 G

TRIISOPROPYLSILYL TRIFLUOROMETHANE-SULFONATE, 97% ITEM 3338

Not on the TSCA inventory.

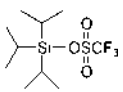
$CF_3SO_3Si[CH(CH_3)_2]_3$ F.W. 306.42

Assay (Acid-base titration), 96.5% - 103.5% Color - Colorless to yellow
Clarity / Form - Clear, liquid

CAS # 80522-42-5 DOT 8/II

83321	10 G
83322	50 G
83323	500 G

Specific Gravity 1.140



TRIMETHYLAMMONIUM PERCHLORATE, REAGENT ITEM 596

$(CH_3)_3NHClO_4$ F.W. 159.57

CAS # 15576-35-9 DOT 5.1/II

75201	100 G
75202	500 G

1,3,5-TRIMETHYLBENZENE

See Mesitylene, 98%

TRIMETHYL BORATE, 98% ITEM 5471

$B(OCH_3)_3$ F.W. 103.91

Assay 98% min.

CAS # 121-43-7 DOT 3/II

16432	500 ML

TRIMETHYLCHLOROSILANE

See Chlorotrimethylsilane, 98+%

1,3,5-TRIMETHYL-1,4-CYCLOHEXADIENE, 98% ITEM 3452

Not on the TSCA inventory.

$C_6H_5(CH_3)_3$ F.W. 122.22

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Stabilizer (BHT), Confirm presence

CAS # 4074-23-1 DOT 3/III

72991	25 G
72992	100 G
72993	500 G
72994	2 KG
72995	15 KG

Specific Gravity 0.828

TRIMETHYLOLETHANE

See 1,1,1-Tris-(Hydroxymethyl)ethane, 94%

T

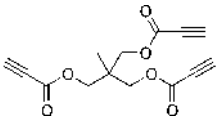
1,1,1-TRIMETHYLOLETHANE TRIPROPIOLATE — ITEM 5223

Not on the TSCA inventory.

$(HC{\equiv}CCOOCH_2)_3CCH_3$ F.W. 276.25

CAS # 995-34-6 DOT NR

Please Inquire For Sizes



2,2,4-TRIMETHYLPENTANE, VERITAS® ULTIMATE — ITEM 5578

ISOOCTANE

$(CH_3)_3CCH_2CH(CH_3)_2$ F.W. 114.23

Assay 99.7%
Residue after evaporation 0.0001%
Fluorescence (as quinine base) 500 ppt
UV at 220 nm 0.20 max
UV at 250 nm 0.01 max
ECD responsive substances 5 pg/ml
Color (APHA) 10 max
UV cut-off 205 nm
UV at 230 nm 0.10 max
Water 0.01%

CAS # 540-84-1 DOT 3/II NFPA # 2-3-1

18171	4 L
18172	4 X 4 L

Specific Gravity 0.690

2,2,4-TRIMETHYLPENTANE, DISTILLED IN GLASS — ITEM 1246

(Isooctane) Suitable for pesticide analysis, gas chromatography, liquid chromatography and spectrophotometry. Meets all ACS specifications.

$(CH_3)_3CCH_2CH(CH_3)_2$ F.W. 114.23

Assay 99.7% min.
Chlorinated hydrocarbon residue 10 pg/ml
Water 0.02%
Residue after evaporation 0.0003%

CAS # 540-84-1 DOT 3/II NFPA # 2-3-1

75313	1 L
75314	6 X 1 L
75311	4 L
75312	4 X 4 L

Specific Gravity 0.690

2,2,4-TRIMETHYLPENTANE, HPLC — ITEM 2494

(Isooctane). Also meets ACS UV grade specifications.

$(CH_3)_3CCH_2CH(CH_3)_2$ F.W. 114.23

Assay 99.0% min.
Residue after evaporation 0.0005%
Sulfur compounds (as S) 0.005%
UV Absorbance at 210 nm 1.00
UV Absorbance at 230 nm 0.10
Color (APHA) 10 max.
Water-soluble titrable acid 0.0003 meq/g
Water 0.01%
UV Absorbance at 220 nm 0.20
UV Absorbance at 250 nm 0.01

CAS # 540-84-1 DOT 3/II NFPA # 2-3-1

72981	1 L
72982	6 X 1 L
72983	4 L
72984	4 X 4 L

Specific Gravity 0.690

2,2,4-TRIMETHYLPENTANE, REAGENT (ACS) for GENERAL USE — ITEM 1055

(Isooctane)

$(CH_3)_3CCH_2CH(CH_3)_2$ F.W. 114.23

Assay 99.0% min.
Residue after evaporation 0.001%
Sulfur Compounds (as S) 0.005%
Color (APHA) 10 max.
Water-soluble titrable acid 0.0003 meq/g

CAS # 540-84-1 DOT 3/II NFPA # 2-3-1

75304	1 L
75305	6 X 1 L
75302	4 L
75303	4 X 4 L

Specific Gravity 0.690

(TRIMETHYLSILYL)ACETYLENE, 98+% — ITEM 3340

$(CH_3)_3SiC{\equiv}CH$ F.W. 98.22

Assay (GC-FID), 98.0% min
Appearance - Clear, colorless liquid
Identification by GC/MS - Conforms

CAS # 1066-54-2 DOT 3/II NFPA # 1-3-0

83341	25 G
83342	100 G
83345	250 G
83344	1 KG
83349	10 KG
83348	40 KG
83350	140 KG

Specific Gravity 0.695

bis-(TRIMETHYLSILYL)ACETYLENE, 98% — ITEM 3010

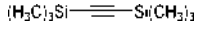
$(CH_3)_3SiC{\equiv}CSi(CH_3)_3$ F.W. 170.41

Assay (GC-FID), 97.5% min
Color - Colorless
Identification by GC/MS - Conforms
Clarity / Form - Clear, liquid when > 21 C

CAS # 14630-40-1 DOT 3/II

80091 10 G
80092 50 G

Specific Gravity 0.752



4-[bis(TRIMETHYLSILYL)AMINO] PHENYLMAGNESIUM BROMIDE, 0.5 M in TETRAHYDROFURAN — ITEM 5636

Not on the TSCA inventory

$C_{12}H_{22}NSi2MgBr$ F.W. 340.69

Concentration 0.5 ± 0.1 M

CAS # 756822-47-6 DOT 3/8/II

Please Inquire For Sizes

1,4-bis-(TRIMETHYLSILYL)-1,3-BUTADIYNE, 98% — ITEM 3011

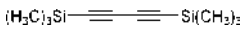
Not on the TSCA inventory.

$(CH_3)_3SiC{\equiv}CC{\equiv}CSi(CH_3)_3$ F.W. 194.43

Assay (GC-FID), 97.5% min
Color - White to light yellow
Identification by GC/MS - Conforms
Form - Crystal or powder

CAS # 4526-07-2 DOT 4.1/II

80101 5 G
80102 25 G
80103 250 G



4-TRIMETHYLSILYL-3-BUTYN-1-OL, 98% — ITEM 3342

Not on the TSCA inventory.

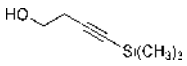
$(CH_3)_3SiC{\equiv}CCH_2CH_2OH$ F.W. 142.27

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless to yellow liquid
Identification by GC/MS - Conforms

CAS # 2117-12-6 DOT 3/III

83361 10 G
83362 50 G
83363 250 G
83364 1 KG

Specific Gravity 0.854



4-TRIMETHYLSILYL-3-BUTYN-2-OL, (±), 98% — ITEM 3343

Not on the TSCA inventory.

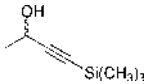
$(CH_3)_3SiC{\equiv}CCH(OH)CH_3$ F.W. 142.27

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms

CAS # 6999-19-5 DOT 3/III

83371 10 G
83372 50 G
83373 500 G

Specific Gravity 0.846



4-TRIMETHYLSILYL-3-BUTYN-2-ONE, 98% — ITEM 3344

Not on the TSCA inventory.

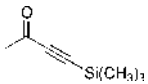
$(CH_3)_3SiC{\equiv}CCOCH_3$ F.W. 140.26

Assay (GC-FID), 97.5% min
Stabilizer (BHT), Confirm presence
Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 5930-98-3 DOT 3/6/II

83381 10 G
83382 50 G

Specific Gravity 0.838



TRIMETHYLSILYL CHLORIDE

See Chlorotrimethylsilane, 98+%

1-TRIMETHYLSILYL-3,3-DIETHOXY-1-PROPYNE, 98% — ITEM 5364

Requires refrigeration; Not on TSCA inventory.

$(CH_3)_3SiC{\equiv}CCH(OCH_2CH_3)_2$ F.W. 200.35

Assay (GC-FID), 97.5% min
Appearance - Clear, colorless to yellow liquid
Identification by GC/MS - Conforms

Please Inquire For Sizes

Specific Gravity 0.864

T

1-TRIMETHYLSILYL-3,3-DIMETHYL-1-BUTYNE, 98% ITEM 3345

Not on the TSCA inventory.

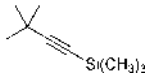
$(CH_3)_3SiC{\equiv}CC(CH_3)_3$ F.W. 154.33

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Color - Colorless Clarity / Form - Clear, liquid

CAS # 14630-42-3 DOT 9/III

83391 10 G
83392 50 G

Specific Gravity 0.742



2-(TRIMETHYLSILYL)ETHANOL, 97% ITEM 3346

Not on the TSCA inventory.

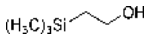
$(CH_3)_3SiCH_2CH_2OH$ F.W. 118.25

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Color - Colorless Clarity / Form - Clear, liquid

CAS # 2916-68-9 DOT 3/III

83401 10 G
83402 50 G

Specific Gravity 0.825



1,3-bis-(TRIMETHYLSILYLETHYNYL)BENZENE, 96% ITEM 3012

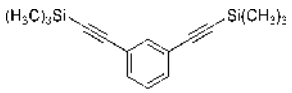
Not on the TSCA inventory.

$C_6H_4[C{\equiv}CSi(CH_3)_3]_2$ F.W. 270.50

Assay 96% min. Melting Point 57-59 C

CAS # 38170-80-8 DOT 9/III

80111 5 G
80112 25 G



1,4-bis-(TRIMETHYLSILYLETHYNYL)BENZENE, 98% ITEM 3013

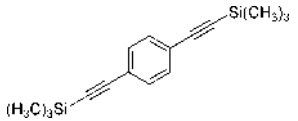
Not on the TSCA inventory.

$C_6H_4[C{\equiv}CSi(CH_3)_3]_2$ F.W. 270.50

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - White to brown solid

CAS # 17938-13-5 DOT 9/III

80121 5 G
80122 25 G
80123 250 G
80124 1 KG



1-TRIMETHYLSILYL ETHYNYL-2-BROMOBENZENE ITEM 5253

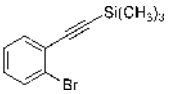
Not on the TSCA inventory.

$(CH_3)_3SiC{\equiv}CC_6H_4Br$ F.W. 253.21

CAS # 38274-16-7 DOT NR

Please Inquire For Sizes

Specific Gravity 1.190



1-(TRIMETHYLSILYLETHYNYL)CYCLOHEXENE, 98% ITEM 3347

Not on the TSCA inventory.

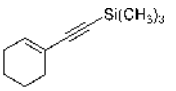
$C_6H_9C{\equiv}CSi(CH_3)_3$ F.W. 178.35

Assay 98% min.

CAS # 17988-44-2 DOT 9/III

83411 5 G
83412 25 G

Specific Gravity 0.845



TRIMETHYLSILYLETHYNYLCYCLOPROPANE, 96% ITEM 3068

Not on the TSCA inventory.

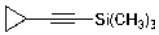
$(CH_3)_3SiC{\equiv}CC_3H_5$ F.W. 138.28

Assay (GC-FID), 95% min Identification by GC/MS - Conforms

CAS # 81166-84-9 DOT 3/II

80661 5 G
80662 25 G

Specific Gravity 0.819



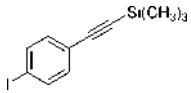
TRIMETHYLSILYL ETHYNYL-4-IODOBENZENE ITEM 3451

Not on the TSCA inventory.

$IC_6H_4C{\equiv}CSi(CH_3)_3$ F.W. 300.21

CAS # 134856-58-9 DOT 9/III

Please Inquire For Sizes



2-(TRIMETHYLSILYLETHYNYL)PYRIDINE, 97% ITEM 3348

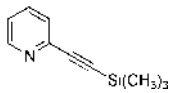
Requires refrigeration. Not on the TSCA inventory. May exist as a liquid or solid depending on purity.

$C_5H_4NC{\equiv}CSi(CH_3)_3$ F.W. 175.29

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Color - Colorless to amber Clarity / Form - Clear, liquid or solid cast

CAS # 86521-05-3 DOT NR

83421 5 G
83422 25 G



2,6-bis(TRIMETHYLSILYLETHYNYL)PYRIDINE, 98% ITEM 5294

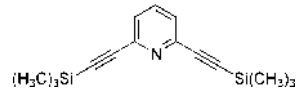
Not on the TSCA inventory.

$C_5H_3N[C{\equiv}CSi(CH_3)_3]_2$ F.W. 271.50

Assay (GC-FID), 97.5% min

CAS # 75867-44-6

Please Inquire For Sizes



2-TRIMETHYLSILYLETHYNYLTHIOPHENE ITEM 5334

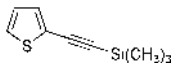
Not on the TSCA inventory.

$C_4H_3SC{\equiv}CSi(CH_3)_3$ F.W. 180.34

Assay (report)

CAS # 40231-03-6 DOT 3/III

Please Inquire For Sizes



3-TRIMETHYLSILYLETHYNYLTHIOPHENE ITEM 5335

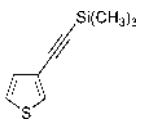
Not on the TSCA inventory.

$C_4H_3SC{\equiv}CSi(CH_3)_3$ F.W. 180.34

Assay (report)

CAS # 130995-13-0 DOT 3/III

Please Inquire For Sizes



T

1-(TRIMETHYLSILYL)-1-HEXYNE, 98% ITEM 3349

Not on the TSCA inventory.

$CH_3(CH_2)_3C{\equiv}CSi(CH_3)_3$ F.W. 154.33

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 3844-94-8 DOT 3/III

83431 25 G
83432 100 G

Specific Gravity 0.764

1-(TRIMETHYLSILYL)IMIDAZOLE, 97% ITEM 3350

$(CH_3)_3Si(C_3H_3N_2)$ F.W. 140.26

Assay 97% min.

CAS # 18156-74-6

83441 50 G
83442 100 G

Specific Gravity 0.956

T

4-(TRIMETHYLSILYL)MORPHOLINE, 97% ITEM 3352

Not on the TSCA inventory.

$(CH_3)_3SiNC_4H_8O$ F.W. 159.31

Assay 97% min.

CAS # 13368-42-8 DOT 3/II

83461 10 G

Specific Gravity 0.897

1-TRIMETHYLSILYLOXY-3-BUTYNE, 98% ITEM 3353

Not on the TSCA inventory.

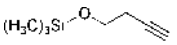
$(CH_3)_3SiOCH_2CH_2C{\equiv}CH$ F.W. 142.27

Assay 98% min.

CAS # 17869-75-9 DOT 3/II

83471 10 G
83472 50 G

Specific Gravity 0.833



2-TRIMETHYLSILYLOXY-3-BUTYNE, 97% ITEM 3354

Requires refrigeration. Not on the TSCA inventory.

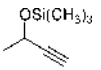
$CH_3CH[OSi(CH_3)_3]C{\equiv}CH$ F.W. 142.27

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 17869-76-0 DOT 3/III

83481 10 G
83482 50 G
83483 250 G
83484 1 KG

Specific Gravity 0.818



1,2-bis-(TRIMETHYLSILYLOXY)ETHANE, 98% ITEM 3014

Not on the TSCA inventory.

$(CH_3)_3SiOCH_2CH_2OSi(CH_3)_3$ F.W. 206.43

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 7381-30-8 DOT 3/III

80131 25 G
80132 100 G

Specific Gravity 0.842

TRIMETHYLSILYLOXYPROPYNE, 98% ITEM 3360

Requires refrigeration.

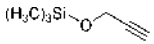
$HC{\equiv}CCH_2OSi(CH_3)_3$ F.W. 128.25

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 5582-62-7 DOT 3/6.1/II

83541 25 G
83542 100 G

Specific Gravity 0.833



1-TRIMETHYLSILYL-1,4-PENTADIYNE, 96% ITEM 3356

Requires refrigeration. NOT on the TSCA inventory.

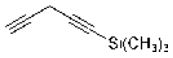
$HC{\equiv}CCH_2C{\equiv}CSi(CH_3)_3$ F.W. 136.27

Assay (GC-FID), 96% min Identification by GC/MS - Conforms
Appearance -
Clear, colorless to amber liquid Stabilzer (BHT), Confirm presence

CAS # 71789-10-1 DOT 3/II

83501 5 G
83502 25 G
83503 150 G
83504 750 G

Specific Gravity 0.789



1-TRIMETHYLSILYL-4-PENTEN-1-YNE ITEM 5637

Not on the TSCA inventory.

$C_8H_{14}Si$ F.W. 138.28

CAS # 79516-25-9

Please Inquire For Sizes

Specific Gravity 0.772

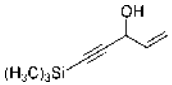
5-TRIMETHYLSILYL-1-PENTEN-4-YN-3-OL ITEM 3462

Not on the TSCA inventory.

$(CH_3)_3SiC{\equiv}CCH(OH)CH{=}CH_2$ F.W. 154.28

CAS # 5272-35-5 DOT NR

Please Inquire For Sizes



trans-5-TRIMETHYLSILYL-2-PENTEN-4-YN-1-OL ITEM 3459

Not on the TSCA inventory.

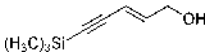
$(CH_3)_3SiC{\equiv}CCH{=}CHCH_2OH$ F.W. 154.28

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Color - Colorless to yellow Clarity / Form - Clear, liquid

CAS # 97514-97-1 DOT NR

13591 5 G
13592 25 G

Specific Gravity 0.895



1-(TRIMETHYLSILYL)-1-PENTYNE, 98% ITEM 3357

Not on the TSCA inventory.

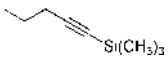
$CH_3(CH_2)_2C{\equiv}CSi(CH_3)_3$ F.W. 140.30

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 18270-17-2 DOT 3/II

83511 10 G
83512 50 G

Specific Gravity 0.765



5-(TRIMETHYLSILYL)-4-PENTYN-1-OL, 98% ITEM 3358

Not on the TSCA inventory.

$(CH_3)_3SiC{\equiv}C(CH_2)_3OH$ F.W. 156.30

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Color - Colorless to yellow Clarity / Form - Clear, liquid

CAS # 13224-84-5 DOT 9/III

83521 10 G
83522 50 G

Specific Gravity 0.852

TRIMETHYLSILYL PHENYLACETYLENE

See 1-Phenyl-2-Trimethylsilylacetylene, 99%

3-TRIMETHYLSILYLPROPARGYL ALCOHOL, 98% ITEM 3359

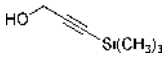
$(CH_3)_3SiC{\equiv}CCH_2OH$ F.W. 128.25

Assay (GC-FID), 97.5% min
Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 5272-36-6 DOT 6.1/II

83531	10 G
83532	50 G
83533	250 G
83534	1 KG

Specific Gravity 0.865



TRIMETHYLSILYLPROPARGYL ALCOHOL

See Trimethylsilyloxypropyne, 98%

3-TRIMETHYLSILYL PROPARGYL ALDEHYDE, 97% ITEM 5594

Not on the TSCA inventory.

$(CH_3)_3SiC{\equiv}CCHO$ F.W. 126.23

Assay (GC-FID), 96.5% min
Identification by GC/MS - Conforms
Stabilizer (BHT), Confirm presence
Appearance - Clear, colorless to yellow liquid

CAS # 2975-46-4 DOT 3/III

Please Inquire For Sizes

3-TRIMETHYLSILYLPROPARGYL BROMIDE

See 3-Bromo-1-Trimethylsilyl-1-Propyne

3-(TRIMETHYLSILYL)PROPIOLIC ACID, 95% ITEM 3361

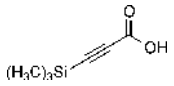
Not on the TSCA inventory.

$(CH_3)_3SiC{\equiv}CCOOH$ F.W. 142.23

Assay 95% min.
Melting point 47-49 C

CAS # 5683-31-8 DOT NR

Please Inquire For Sizes



3-TRIMETHYLSILYL-2-PROPYNAL

See 3-Trimethylsilyl Propargyl Aldehyde

1-(TRIMETHYLSILYL)-1-PROPYNE, 98% ITEM 3362

Not on the TSCA inventory, for R&D applications only.

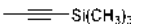
$CH_3C{\equiv}CSi(CH_3)_3$ F.W. 112.25

Assay (GC-FID), 97.5% min
Identification by GC/MS, Conforms
Color (APHA), 50 max
Clarity / Form, Clear liquid

CAS # 6224-91-5 DOT 3/II

83561	10 G
83562	50 G
83563	250 G
83564	1 KG
83565	3 KG
83566	15 KG
83567	42.5 KG

Specific Gravity 0.758



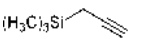
3-TRIMETHYLSILYL-1-PROPYNE, 97% ITEM 3418

$HC{\equiv}CCH_2Si(CH_3)_3$ F.W. 112.25

Assay 97% min.

CAS # 13361-64-3 DOT 3/II

Please Inquire For Sizes



TRIMETHYLSILYL TRIFLATE

See Trimethylsilyl Trifluoromethanesulfonate 99%

TRIMETHYLSILYL TRIFLUOROMETHANESULFONATE, 99% ITEM 3363

Trimethylsilyl Triflate

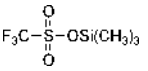
$CF_3SO_3Si(CH_3)_3$ F.W. 222.26

Assay (Acid-Base titration), 98.5% - 101.5%
Color- Colorless to yellow
Clarity / Form - Clear, fuming liquid

CAS # 27607-77-8 DOT 8/3/I

83571	25 G
83572	100 G

Specific Gravity 1.150



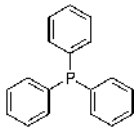
TRIPHENYLPHOSPHINE, 99% ITEM 2776

$(C_6H_5)_3P$ F.W. 262.29

Assay (GC-FID), 98.5% min Identification by GC/MS - Conforms

CAS # 603-35-0 DOT 9/III

75352 100 G
75353 500 G



TRIPHENYLPHOSPHINE PALLADIUM CHLORIDE ITEM A1113

$[(C_6H_5)_3P]_2PdCl_2$ F.W. 701.88

CAS # 13965-03-2 DOT NR

17111 1 G
17112 5 G

1,1,3-TRIPHENYLPROPARGYL ALCOHOL, 99% ITEM 3364

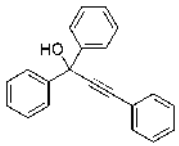
Not on the TSCA inventory.

$C_6H_5C{\equiv}CC(C_6H_5)_2OH$ F.W. 284.36

Assay (HPLC - Area % at 208 nm), 98.5% min Identification by GC/MS - Conforms
Color - White to off-white Form - Crystal, powder, or fibers

CAS # 1522-13-0 DOT NR

83586 5 G
83581 25 G
83582 100 G



2,3,5-TRIPHENYLTETRAZOLIUM CHLORIDE ITEM 597

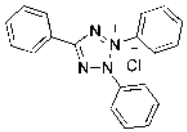
$C_{19}H_{15}N_4Cl$ F.W. 334.81

Loss on drying (105 C) 3.0% Solubility (Color) - Faint Yellow to Yellow
Solubility (Turbidity) - Clear to Slightly Hazy Appearance - White to Yellow

CAS # 298-96-4 DOT NR NFPA # 2-1-1

75401 5 G
75402 25 G

Specific Gravity 0.950



TRIPOTASSIUM PHOSPHATE

See Potassium Phosphate, Tribasic

TRIPROPARGYLAMINE, 98% ITEM 3969

Requires refrigeration. Not on the TSCA inventory.

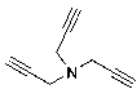
$(HC{\equiv}CCH_2)_3N$ F.W. 131.18

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
H2O (KF), 0.5% max Color - Colorless to amber
Clarity / Form - Clear, liquid

CAS # 6921-29-5 DOT 3/III

10121 5 G
10122 25 G

Specific Gravity 0.927



TRI-2-PROPYNYLAMINE

See Tripropargylamine

2,2',2"-TRIPYRIDINE

See 2,2',2"-Terpyridine

TRIPYRIDYL

See 2,2',2"-Terpyridine

2,4,6-TRI(4-PYRIDYL)-S-TRIAZINE

See 2,4,6-Tri(4-Pyridyl)-1,3,5-Triazine, 98%

T

2,4,6-TRI(2-PYRIDYL)-S-TRIAZINE

See 2,4,6-Tri(2-Pyridyl)-1,3,5-Triazine

2,4,6-TRI(2-PYRIDYL)-1,3,5-TRIAZINE ITEM 291

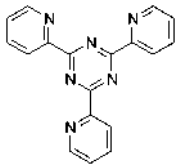
TPTZ. Reagent for the colorimetric determination of iron. Collins, Diehl and Smith, ANAL. CHEM., 31, 1862 (1959)

$C_3N_3(C_5H_4N)_3$ F.W. 312.33

Melting Point 243-247C

CAS # 3682-35-7 DOT NR

75602	5 G
75604	25 G
75605	100 G
75606	1 KG



2,4,6-TRI(4-PYRIDYL)-1,3,5-TRIAZINE, 98% ITEM 5382

TPT. An essentially planar ligand that enables the construct of unusual and highly symmetrical polynuclear complexes and metal-organic frameworks. Not on the TSCA inventory.

$C_3N_3(C_5H_4N)_3$ F.W. 312.33

Assay (HPLC - UV/Vis @ 254 nm), 97.5% min Color - White to light tan
Form - Powder or crystal

CAS # 42333-78-8 DOT NR

16461	1 G
16462	5 G
16463	25 G
16464	100 G

TRIS

See Trishydroxymethylaminomethane

TRIS(BATHOPHENANTHROLINE) RUTHENIUM (II) CHLORIDE

See Tris-(Bathophenanthroline) Ruthenium (II) Chloride

TRIS(BATHOPHENANTHROLINE) RUTHENIUM PERCHLORATE

See Tris-(Bathophenanthroline) Ruthenium (II) Perchlorate

TRIS(BATHOPHENANTHROLINE) RUTHENIUM TETRAPHENYLBORON

See Tris-(Bathophenanthroline) Ruthenium (II) Tetraphenylboron

TRIS(2,2'-BIPYRIDINE) RUTHENIUM CHLORIDE

See Tris-(2,2'-Bipyridine) Ruthenium (II) Chloride

TRIS(2,2'-BIPYRIDINE) RUTHENIUM PERCHLORATE

See Tris-(2,2'-Bipyridine) Ruthenium (II) Perchlorate

TRIS(4,7-DIPHENYL-1,10-PHENANTHROLINE) RUTHENIUM CHLORIDE

See Tris-(Bathophenanthroline) Ruthenium (II) Chloride

TRIS HYDROCHLORIDE

See Trishydroxymethylaminomethane Hydrochloride

TRISHYDROXYMETHYLAMINOMETHANE, PRIMARY STANDARD ITEM 176

Also meets ACS specifications

$(CH_2OH)_3CNH_2$ F.W. 121.14

Assay (Dried Basis) 99.90-100.10% Insolubles 0.005%
Heavy metals (Pb) 0.0005% Iron 0.0005%
Water 2.0% max Absorbance - Pass Test

CAS # 77-86-1 DOT NR NFPA # 1-1-1

75801	100 G
75802	500 G
75803	2.5 KG
75804	10 KG
75805	50 KG

TRISHYDROXYMETHYLAMINOMETHANE, BIO-REFINED™ ITEM 1948

$(CH_2OH)_3CNH_2$ F.W. 121.14

Assay 99.5% min. Loss on drying 2% max.
Insoluble matter 0.005%

Al 5 ppm	As 0.1 ppm	Ba 5 ppm
Bi 5 ppm	Ca 10 ppm	Cd 5 ppm
Co 5 ppm	Cr 5 ppm	Cu 5 ppm
Fe 5 ppm	K 50 ppm	Li 5 ppm
Mg 5 ppm	Mn 5 ppm	Mo 5 ppm
Na 50 ppm	Ni 5 ppm	Pb 5 ppm
Sr 5 ppm	Zn 5 ppm	

CAS # 77-86-1 DOT NR

75814	100 G
75811	500 G

TRISHYDROXYMETHYLAMINOMETHANE, REAGENT (ACS) ITEM 1096

$(CH_2OH)_3CNH_2$ F.W. 121.14

Assay (dry basis) 99.8-100.1%
Heavy metals (as Pb) 0.0005%
Water 2%
Insoluble 0.005%
Iron 0.0005%
Absorbance - Pass Test

CAS # 77-86-1 DOT NR NFPA # 1-1-1

75836	100 G
75831	500 G
75832	2.5 KG
75833	10 KG
75834	50 KG

TRISHYDROXYMETHYLAMINOMETHANE HYDROCHLORIDE, BIO-REFINED™ ITEM 1949

$(CH_2OH)_3CNH_2 \bullet HCl$ F.W. 157.60

Assay 99.0% min.
pH of 0.5M solution 3.5-5.0
Residue on ignition 0.2%
Loss on drying 0.2%
Insoluble Matter 0.005%

Al 5 ppm	As 0.1 ppm	Ba 5 ppm
Bi 5 ppm	Ca 10 ppm	Cd 5 ppm
Co 5 ppm	Cr 5 ppm	Cu 5 ppm
Fe 5 ppm	K 50 ppm	Li 5 ppm
Mg 5 ppm	Mn 5 ppm	Mo 5 ppm
Na 50 ppm	Ni 5 ppm	Pb 5 ppm
Sr 5 ppm	Zn 5 ppm	

CAS # 1185-53-1 DOT NR

75855	100 G
75851	500 G

1,1,1-TRIS(HYDROXYMETHYL)ETHANE

See 1,1,1-Tris-(Hydroxymethyl)ethane, 94%

TRISODIUM PERIODATE

See Sodium Para Periodate

TRISODIUM PHOSPHATE

See Sodium Phosphate, Tribasic, Dodecahydrate

TRIS(1,10-PHENANTHROLINE) FERROUS PERCHLORATE

See Tris-(1,10-Phenanthroline) Ferrous Perchlorate

TRIS(1,10-PHENANTHROLINE) RUTHENIUM CHLORIDE

See Tris-(1,10-Phenanthroline) Ruthenium (II) Chloride

TRISPROPARGYLAMINE

See Tripropargylamine

TRITON® X-100 ITEM 2657

Polyoxyethylene(10) isooctylphenyl ether. n in formula is about 10

$(C_8H_{17})C_6H_4(OCH_2CH_2)_nOH$

Color (AHPA) 50
Specific gravity 1.055-1.070
Cloud point (1% aqueous) 63-69C

CAS # 9036-19-5 DOT NR NFPA # 3-1-0

75891	50 ML
75892	500 ML
75893	4 L
75894	19 L

Specific Gravity 1.070

TROMETHAMINE

See Trishydroxymethylaminomethane

TROMETHAMINE HYDROCHLORIDE

See Trishydroxymethylaminomethane Hydrochloride

TSPP

See Sodium Pyrophosphate, Decahydrate

TTS-5

See 3,3,3',3'-Tetramethyl-1,1'-Spirobisindane-5,5',6,6'-Tetrol

TUNGSTEN, 99.98% ITEM A8841

Powder form.

W F.W. 183.85

Assay (metals basis) 99.98% min

CAS # 7440-33-7 DOT NR

76011	100 G

TUNGSTEN, 10,000 ppm ICP STANDARD SOLUTION ITEM 1828

Concentration 10,000 ± 100 ug/ml
NIST Traceable
Matrix: 5% Nitric acid w/trace HF

DOT 8/II NFPA # 1-0-1

23280	100 ML
23282	500 ML

Specific Gravity 1.030

TUNGSTEN, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1827

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid w/trace HF
NIST Traceable

DOT 8/II NFPA # 1-0-1

23270	100 ML
23272	500 ML

Specific Gravity 1.030

TUNGSTEN BORIDE, 99.5% — ITEM A8856

WB F.W. 194.66

CAS # 12007-09-9 DOT NR

76031	25 G

TUNGSTEN CARBIDE, 99% — ITEM A8862

-325 Mesh

WC F.W. 195.86

CAS # 12070-12-1 DOT NR

76061	100 G
76062	500 G

TUNGSTEN DISULFIDE, 99% — ITEM A8865

WS_2 F.W. 247.98

CAS # 12138-09-9 DOT NR

76071	100 G

TUNGSTEN SILICIDE, 99% — ITEM A8895

WSi_2 F.W. 240.02

CAS # 12039-88-2 DOT NR

76082	10 G
76081	50 G

TUNGSTEN TRIOXIDE, 99.995% — ITEM 5076

WO_3 F.W. 231.85

Assay (metals basis) 99.995% min

CAS # 1314-35-8 DOT NR

87721	5 G
87722	25 G
87723	100 G

TUNGSTEN TRIOXIDE, 99.5% — ITEM A8880

WO_3 F.W. 231.85

Assay (metals basis) 99.5% min

CAS # 1314-35-8 DOT NR

76091	100 G
76092	500 G
76094	10 KG

TUNGSTIC ACID, REAGENT — ITEM 99

H_2WO_4 F.W. 249.86

Lead 0.005% Insoluble in dilute NH4OH 0.05%
Iron 0.003%

CAS # 7783-03-1 DOT NR NFPA # 1-0-0

76051	100 G
76052	500 G
76053	2.5 KG

TUNGSTIC OXIDE

See Tungsten Trioxide, 99.5%

TURBIDITY STANDARDS

See AMCO Clear Turbidity Standard
In-Spec UV Standard

1-UNDECENE, 97% — ITEM 3366

$CH_3(CH_2)_8CH=CH_2$ F.W. 154.30

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless to yellow liquid

CAS # 821-95-4 DOT 9/III

83601	10 G
83602	50 G
83603	250 G
83604	1 KG

Specific Gravity 0.750

10-UNDECENOIC ACID, 98% — ITEM 3428

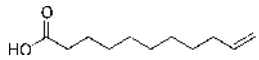
$H_2C=CH(CH_2)_8COOH$ F.W. 184.28

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms

CAS # 112-38-9 DOT 8/II

76141	100 ML
76142	500 ML

Specific Gravity 0.910



10-UNDECEN-1-OL, 98% — ITEM 3381

(omega)-Undecylenyl Alcohol

$H_2C=CH(CH_2)_9OH$ F.W. 170.30

Assay (by GC) 98% min.

CAS # 112-43-6 DOT NR NFPA # 0-1-0

83751	25 G
83752	100 G
83753	2 KG

Specific Gravity 0.850

10-UNDECENOYL CHLORIDE — ITEM 3427

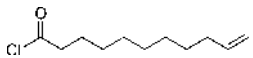
Lachrymator. Moisture sensitive.

$CH_2=CH(CH_2)_8COCl$ F.W. 202.72

CAS # 38460-95-6 DOT 8/II

76151	25 G
76152	100 G

Specific Gravity 0.944



UNDECYLENIC ACID

See 10-Undecenoic Acid

1-UNDECYNE, 97% — ITEM 3367

$CH_3(CH_2)_8C\equiv CH$ F.W. 152.28

Assay (GC-FID), 96.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 2243-98-3 DOT NR

83611	5 G
83612	25 G
83613	250 G
83614	1 KG
83615	14.5 KG
83616	45 KG
83617	160 KG

Specific Gravity 0.773

2-UNDECYNE, 98% — ITEM 3970

Not on the TSCA inventory.

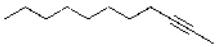
$CH_3(CH_2)_7C\equiv CCH_3$ F.W. 152.28

Assay (GC-FID), 97.5% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 60212-29-5 DOT NR

Please Inquire For Sizes

Specific Gravity 0.780



3-UNDECYNE, 96% — ITEM 3368

Not on the TSCA inventory.

$CH_3(CH_2)_6C\equiv CCH_2CH_3$ F.W. 152.28

Assay (GC-FID), 95.0% min Identification by GC/MS - Conforms
Appearance - Clear, colorless liquid

CAS # 60212-30-8 DOT 9/III

83621	10 G

Specific Gravity 0.771

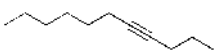
4-UNDECYNE — ITEM 3971

Not on the TSCA inventory.

$CH_3(CH_2)_5C\equiv CCH_2CH_2CH_3$ F.W. 152.28

CAS # 60212-31-9

Please Inquire For Sizes



5-UNDECYNE — ITEM 3972

Not on the TSCA inventory.

$CH_3(CH_2)_4C\equiv C(CH_2)_3CH_3$ F.W. 152.28

CAS # 2294-72-6

Please Inquire For Sizes

U

10-UNDECYNOIC ACID, 95% — ITEM 3369

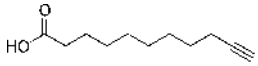
Not on the TSCA inventory.

$HC{\equiv}C(CH_2)_8COOH$ F.W. 182.26

Assay (GC-FID), 94% min
Identification by GC/MS - Conforms
Assay (Acid-base titration), 94.0% - 106.0%
Appearance - White to tan solid

CAS # 2777-65-3 DOT NR

83631 5 G
83632 25 G



10-UNDECYN-1-OL, 97% — ITEM 3370

$CH{\equiv}C(CH_2)_9OH$ F.W. 168.28

Assay (GC-FID), 96.5% min
H2O (KF), 0.5% max
Clarity / Form - Clear, liquid
Identification by GC/MS - Conforms
Color (APHA) - 150 max.

CAS # 2774-84-7 DOT NR

83641 5 G
83642 25 G
83643 100 G
83644 500 G
83645 2 KG

Specific Gravity 0.873

URANINE

See Fluorescein, Disodium Salt

URANIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1830

Concentration 10,000 ± 100 ug/ml
NIST Traceable
Matrix: 5% Nitric acid

DOT 8/III NFPA # 3-0-2

23300 100 ML
23302 500 ML

Specific Gravity 1.030

URANIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1829

Concentration 1,000 ± 10 ug/ml
NIST Traceable
Matrix: 5% Nitric acid

DOT 8/III NFPA # 3-0-2

23290 100 ML
23292 500 ML

Specific Gravity 1.030

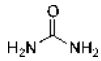
UREA, REAGENT (ACS) — ITEM 824

NH_2CONH_2 F.W. 60.06

Assay 99.0-100.5%
Insoluble 0.01%
Chloride 0.0005%
Heavy Metals (Pb) 0.001%
M.p. 132-135 C
Residue after ignition 0.01%
Sulfate 0.001%
Iron 0.001%

CAS # 57-13-6 DOT NR NFPA # 0-1-0

76301 500 G
76302 2.5 KG
76303 10 KG
76304 50 KG



VALERONITRILE

See Pentanenitrile, 98%

VALIDATION STANDARD

See In-Spec UV Standard #1

VALIDATION STANDARDS

See AMCO Clear Turbidity Standard

VANADIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1832

Concentration 10,000 ± 100 ug/ml
NIST Traceable
Matrix: 5% Nitric acid

DOT 8/III NFPA # 2-0-1

23320 100 ML
23322 500 ML

Specific Gravity 1.030

VANADIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1831

Concentration 1,000 ± 10 ug/ml
NIST Traceable
Matrix: 5% Nitric acid

DOT 8/III NFPA # 2-0-1

23310 100 ML
23312 500 ML

Specific Gravity 1.030

VANADIUM, 1,000 ppm AA STANDARD SOLUTION — ITEM 765

AA, colorimetric or volumetric standard

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

70350 100 ML
70352 500 ML

Specific Gravity 1.030

VANADIUM CARBIDE — ITEM A8991

VC F.W. 62.95

CAS # 12070-10-9 DOT 6.1/III

76361 25 G

VANADIUM PENTOXIDE, 99.995% — ITEM 5077

V_2O_5 F.W. 181.90

Assay (metals basis) 99.995% min.

CAS # 1314-62-1 DOT 6.1/III NFPA # 3-0-1

87731 1 G
87732 5 G
87733 25 G

VANADIUM PENTOXIDE, 99.9% — ITEM 1576

V_2O_5 F.W. 181.90

Assay (metals basis) 99.9% min

CAS # 1314-62-1 DOT 6.1/III NFPA # 3-0-1

76411 100 G
76412 500 G
76413 2.5 KG

VANADIUM PENTOXIDE, REAGENT — ITEM 333

Air dried grade specially adapted for the determination of n-butyl-lithium. P.F. Collins, C.W. Kamienski, D.L. Esmay and R.B. Ellestad, ANAL.CHEM., 33,468 (1961)

V_2O_5 F.W. 181.90

Assay 98.5% min. Chloride 0.2%

CAS # 1314-62-1 DOT 6.1/III NFPA # 3-0-1

76401 100 G
76402 500 G
76403 2.5 KG

VANADYL SULFATE, TRIHYDRATE, 99.99% — ITEM 5100

$VOSO_4 \bullet 3H_2O$ F.W. 217.05

Assay (metals basis) 99.99% min.

CAS # 27774-13-6 DOT 6.1/II NFPA # 2-0-0

87961 1 G
87962 5 G
87963 25 G

VANADYL SULFATE, 30% SOLUTION — ITEM 5513

$VOSO_4$ F.W. 163.00

Concentration (as V) 8 - 11%
Iron - report
Potassium - report
Aluminum - report
Specific gravity 1.35 - 1.50
Sodium - report
Molybdenum - report

CAS # 27774-13-6 DOT 8/6.1/II

Please Inquire For Sizes

VARIAMINE BLUE B, REAGENT (ACS) — ITEM 2457

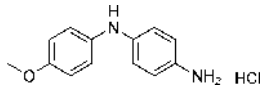
N-[p-Methoxyphenyl]-p-phenylenediamine hydrochloride

$CH_3OC_6H_4NHC_6H_4NH_2 \bullet HCl$ F.W. 250.73

Suitability as complexometric indicator- Pass test
Clarity of solution - Pass test

CAS # 3566-44-7 DOT NR

83951 5 G
83952 25 G



VITEX, (Modified Starch) — ITEM 331

Indicator for iodometric titrations. Instantly soluble in water. Use 0.3g per determination.

Suitablilty as iodometric indicator - Pass Test Insoluble 0.01%

CAS # 9005-84-9 DOT NR NFPA # 0-1-0

76601 100 G
76602 500 G

WALDEN REDUCTOR TUBE, Glass apparatus — ITEM 192

Column for use as reductor with silver, amalgamated zinc or cadmium. Also works well for ion exchange chromatography.

DOT NR

79001 EACH

WATCH GLASS SUPPORTS — ITEM 193

See Laboratory Apparatus section in front of catalog for more information.

DOT NR

78901 100 2.5 MM

WATERMARK KARL FISCHER SOLID WATER STANDARD

See Sodium Tartrate, Dihydrate

WATER REAGENTS

See Watermark Karl Fischer Reagent,
Pyridine Free Single Solution, 5 MG/ML

WATER. VERITAS® ULTIMATE. DEIONIZED (ULTRAPURE) — ITEM 5613

Applicable for use in LC/UV gradient and microelectronics. Ultra-low trace organics and metals

H_2O F.W. 18.015

LC/UV Gradient suitability @ 254 nm 0.0005 AU
LC/UV Gradient suitability @ 210 nm 0.002 AU
UV Absorbance @ 190-240 nm 0.001 max
UV Absorbance @ 250-280 nm 0.0005 max
Residue after evaporation 0.0001%
Total Organic Carbon 0.05 ppb
Total trace metal impurities 10 ppb max
Filtered 0.03 um

CAS # 7732-18-5 DOT NR

	20271	1 L
*	**20272**	1 L
	20273	4 L

* = European Bottle

WATER, DEIONIZED (HPLC) — ITEM 1963

ASTM/APHA Type I Water

H_2O F.W. 18.02

Resistivity @ 25 C 18.0 Mohm-cm
Silicate (as SiO2) 0.01 ppm
Heavy metals (as Pb) 0.01 ppm
Substances reducing permanganate Pass test
HPLC absorbance Pass test
HPLC gradient elution Pass test

CAS # 7732-18-5 DOT NR NFPA # 0-0-0

76701	4 L
76702	4 X 4 L
76703	20 L
76704	204 L

Specific Gravity 1.000

WATER, 100% T — ITEM 8475

Background for In-Spec dye standards.

H_2O F.W. 18.02

De-ionized Water (through 0.03 um filter) % Transmittance at 280 nm

CAS # 7732-18-5 DOT NR

86727	60 ML
86728	125 ML

WATER, WITH 0.1% ACETIC ACID — ITEM 5634

Acetic acid 0.100 ± 0.005% Clear and Colorless solution
Free from particulate matter

DOT NR

20611 4 L

WATER. WITH 0.1% AMMONIUM HYDROXIDE — ITEM 5635

Ammonium hydroxide 0.100 ± 0.005% Clear and Colorless solution
Free from particulate matter

DOT NR

20621 4 L

WATER, WITH 0.1% FORMIC ACID — ITEM 5614

Formic acid 0.100 % v/v ± 0.005 Clear and Colorless solution
Free from particulate matter

DOT NR

	20281	1 L
*	**20282**	1 L
	20283	4 L

* = European Bottle

WATER, WITH 0.1% TRIFLUOROACETIC ACID — ITEM 5615

Trifluoroacetic acid 0.100% v/v ± 0.005 Clear and Colorless solution
Free from particulate matter

DOT NR

	20291	1 L	
*	**20292**	1 L	**70**
	20293	4 L	

* = European Bottle

WATER HARDNESS BUFFER SOLUTION, WITH NO ADDED MAGNESIUM — ITEM 2168

Ammonium Chloride-Hydroxide for Water Hardness or for Standard EDTA Titrations. Contains no Mg Ions.

NH_4OH+NH_4Cl

Suitability for EDTA titrations Pass Test pH of 4% Solution 10.0 ± 0.1

DOT 8/III

25671 4 L

Specific Gravity 1.000

WATER HARDNESS BUFFER SOLUTION, WITH MAGNESIUM EDTA — ITEM 2167

Ammonium Chloride-Hydroxide with Magnesium EDTA for Water Hardness or for Standard EDTA Titrations. Expires 30 days after opening

NH_4OH+NH_4Cl

Suitability as complexometric buffer Pass Test pH (at 25 C) 10.0 ± 0.1

DOT 8/III NFPA # 2-0-1

25662 1 L
25661 4 L

Specific Gravity 1.000

WIJS' CHLORIDE

See Iodine Monochloride

WIJS' SOLUTION — ITEM 2169

AOAC for Iodine Absorption Number of Oils and Fats

Ratio of iodine to chlorine 1.00 - 1.20

DOT 8/3/II

25681 500 ML
25682 4 L

Specific Gravity 1.050

WaterMark® KARL FISCHER BOTTLE ADAPTER — ITEM 1625

To allow use of US bottles with European 45 mm connectors.

DOT NR

78551 EACH

WaterMark® KARL FISCHER BUFFER SOLUTION — ITEM 1615

For volumetric analysis. May be used in place of KF Solvent 1610 for extra buffering capacity of 5 mmole of acid/ml.

Suitability -Pass Test Sensitivity -Pass Test

DOT 3/II

99807 500 ML
99801 1 L
99803 6 X 1 L

Specific Gravity 0.950

WaterMark® KARL FISCHER COULOMETRIC VESSEL SOLUTION, PYRIDINE-FREE — ITEM 1612

For coulometric analysis. Anolyte for all coulometric titrators. Universal solution for certain coulometric titrators.

Suitability - Pass Test Capacity - Pass Test

DOT 3/II NFPA # 2-3-1

99926 500 ML
99927 6 X 500 ML
99771 1 L
99773 6 X 1 L
99768 4 L
99927 4 X 4 L

Specific Gravity 1.200

WaterMark® KARL FISCHER COULOMETRIC GENERATOR SOLUTION, PYRIDINE-FREE — ITEM 1613

For coulometric analysis. Catholyte for coulometric titrators.

Suitability -Pass Test

DOT 3/III NFPA # 2-2-1

99782 10 X 5 ML
99781 125 ML
99784 6 X 125 ML

Specific Gravity 0.900

WaterMark® KARL FISCHER COULOMETRIC GENERATOR SOLUTION, UNIVERSAL — ITEM 2321

Catholyte solution for coulometric analysis. For both general use and aldehydes and ketones.

Suitability Pass Test Moisture 50 ppm

DOT 3/III NFPA # 2-2-1

99711 125 ML
99712 6 X 125 ML
99713 10 X 5 ML

Specific Gravity 1.100

W

WaterMark® KARL FISCHER COULOMETRIC REAGENT PACKAGE ITEM 1611

Kit contains 1 L of Vessel Solution (Anolyte), 125 ml of Generator Solution (Catholyte), 25 ml of Neutralizer and 1 funnel.

IDOT 3/II

99761	KIT

Specific Gravity 1.000

WaterMark® KARL FISCHER COULOMETRIC VESSEL SOLUTION, CFC FREE ITEM 1607

Pyridine and chlorocarbon free vessel solution which retains solvent properties of the chloroform-containing solution. Suitable for non-polar samples.

Suitability - Pass Test

DOT 3/III

99683	500 ML
99684	6 X 500 ML
99681	1 L
99682	6 X 1 L

Specific Gravity 0.938

WaterMark® KARL FISCHER COULOMETRIC VESSEL SOLUTION, FOR KETONES AND ALDEHYDES ITEM 1619

Substitutes for 1612 Vessel solution when moisture is to be determined in ketones. Does not contain methanol.

Suitability - Pass Test Capacity - Pass Test

DOT 3/6.1/III NFPA # 2-3-0

99813	500 ML

Specific Gravity 1.200

WaterMark® KARL FISCHER COULOMETRIC VESSEL SOLUTION, DIAPHRAGMLESS, CHLOROFORM-FREE ITEM 1671

Pyridine and chlorocarbon free vessel solution for coulometers with or without diaphragm.

Suitability - Pass Test

DOT 3/II

99856	500 ML
99857	6 X 500 ML
99851	1 L
99853	6 X 1 L

Specific Gravity 0.900

WaterMark® KARL FISCHER COULOMETRIC VESSEL SOLUTION, PYRIDINE-BASED ITEM 1622

Anolyte for coulometric moisture determination.

Suitability - Pass Test Capacity - Pass Test

DOT 3/II

99921	1 L
99922	6 X 1 L

Specific Gravity 1.050

WaterMark® KARL FISCHER COULOMETRIC GENERATOR SOLUTION, PYRIDINE-BASED ITEM 1623

Catholyte for coulometric moisture determination.

Suitability - Pass Test

DOT 3/II

99931	125 ML
99932	6 X 125 ML

WaterMark® KARL FISCHER COULOMETRIC VESSEL SOLUTION, for OILS ITEM 5202

For coulometric analysis of oils and petroleum products. Anolyte for coulometric titrators.

Suitability - Pass test Capacity - Pass test

DOT 3/II

12162	500 ML
12163	6 X 500 ML
12164	1 L
12165	6 X 1 L
12168	4 L
12163	4 X 4 L

Specific Gravity 1.105

WaterMark® KARL FISCHER COULOMETRIC REAGENT KIT for OILS ITEM 5605

Kit contains 8 x 100 mL Coulometric Vessel Solution for Oils (GFS # 5202) and 8 x 5 mL Universal Generator Solution (GFS # 2321).

19021	KIT	**$301.20**

WaterMark® KARL FISCHER COULOMETRIC VESSEL SOLUTION, OVEN ITEM 1889

Fritless reagent for use in conjunction with KF oven. Pyridine and chlorocarbon free.

Suitability - Pass Test Capacity - Pass Test

DOT 3/II

19181	500 ML
19182	6 X 500 ML
19183	1 L
19184	6 X 1 L

Specific Gravity 1.057

WaterMark® KARL FISCHER DILUENT ITEM 1621

Moisture-free diluent for adjusting titer of Pyridine-based KF Reagent.

Water content 200 ppm max.

DOT 3/III

99912	1 L
99913	6 X 1 L
99914	4 L
99915	4 X 4 L

Specific Gravity 0.966

WaterMark® KARL FISCHER REAGENT, 5 mg/ml SINGLE SOLUTION, NON-HAZ ITEM 1893

New formulation. Not regulated for transport. For volumetric analysis. Suitable for general purpose applications as well as for aldehydes and ketones.

Titer Strength (when bottled) 5.0 mg/ml min. Suitability - Pass Test

DOT NR

17301	1 L
17302	6 X 1 L
17305	2.5 L
17306	6 X 2.5 L
17307	4 L
17302	4 X 4 L

WaterMark® KARL FISCHER REAGENT, 2 mg/ml SINGLE SOLUTION, NON-HAZ ITEM 1894

New formulation. Not regulated for transport. For volumetric analysis. Suitable for general purpose applications as well as for aldehydes and ketones.

Titer Strength 2.0 mg/ml min Suitability - Pass Test

DOT NR

17311	1 L
17312	6 X 1 L
17315	2.5 L
17316	6 X 2.5 L
17317	4 L
17312	4 X 4 L

WaterMark® KARL FISCHER REAGENT, PYRIDINE-FREE SINGLE SOLUTION, 5 mg/ml ITEM 1600

For volumetric analysis. Suitable for general purpose or aldehydes and ketones.

Titer Strength (when bottled) 5.0 mg/ml min. Suitability - Pass Test

DOT 3/III NFPA # 2-2-1

99601	1 L
99607	6 X 1 L
99602	2.5 L
99600	6 X 2.5 L
99604	4 L
99607	4 X 4 L

Specific Gravity 1.200

WaterMark® KARL FISCHER REAGENT, PYRIDINE-FREE SINGLE SOLUTION, 2 mg/ml ITEM 1601

For volumetric analysis. Suitable for general purpose or aldehydes and ketones.

Titer Strength 2.0 mg/ml min Suitability - Pass Test

DOT 3/III NFPA # 2-2-1

99621	1 L
99624	6 X 1 L
99623	2.5 L
99620	6 X 2.5 L
99627	4 L
99624	4 X 4 L

Specific Gravity 1.200

WaterMark® KARL FISCHER REAGENT, 5 mg/ml, STABILIZED, PYRIDINE-BASED ITEM 1620

For volumetric titrations. Titer approx. 5 mg/ml.

Titer strength 5.0 - 6.0 mg/mL Suitability - Pass Test

DOT 3/III

99903	1 L
99904	6 X 1 L
99905	4 L
99906	4 X 4 L

Specific Gravity 1.135

WaterMark® KARL FISCHER SOLVENT, for ALDEHYDES AND KETONES ITEM 5322

For use with 1 component reagents, GFS # 1600, 1601, for determination of water in aldehydes and ketones. Especially suitable for higher MW products and mixtures containing non-polar constituents.

Suitability Pass test Sensitivity Pass test

DOT 3/III

15172	1 L
15173	6 X 1 L
15174	4 L
15175	4 X 4 L

WaterMark® KARL FISCHER SOLVENT, METHANOL-FREE ITEM 1609

For volumetric analysis. To be used with reagents 1600, 1601 and stable titrant 1602-1604. For determination of water in aldehydes and ketones in addition to general usage.

Suitability Pass test Sensitivity Pass test

DOT 3/III NFPA # 2-2-2

99721	1 L
99725	6 X 1 L
99723	2.5 L
99720	6 X 2.5 L
99728	4 L
99725	4 X 4 L

Specific Gravity 0.900

WaterMark® KARL FISCHER SOLVENT FOR OILS, for ONE-COMPONENT SYSTEM ITEM 2978

For volumetric analysis. To be used with KF Titrants 1600, 1601. For determination of water in oils or other non-polar compounds.

Suitability Pass test Sensitivity Pass test

DOT 3/III

28742	1 L
28743	6 X 1 L
28744	4 L
28745	4 X 4 L

Specific Gravity 1.500

WaterMark® KARL FISCHER SOLVENT FOR OILS, for TWO-COMPONENT SYSTEM ITEM 2991

For volumetric analysis. To be used with stable titrant 1602-1604, 1970 or 1616. For determination of water in oils or other non-polar compounds.

Suitability Pass test Sensitivity Pass test

DOT 3/II

28772	1 L
28773	6 X 1 L
28774	4 L
28775	4 X 4 L

Specific Gravity 1.200

WaterMark® KARL FISCHER SOLVENT, GENERAL PURPOSE ITEM 1610

For volumetric analysis. To be used with any GFS KF Titrant for general purpose use. Not for testing aldehydes and ketones.

Suitability - Pass Test Sensitivity - Pass Test

DOT 3/II NFPA # 3-3-1

99741	1 L
99746	6 X 1 L
99742	2.5 L
99594	6 X 2.5 L
99745	4 L
99746	4 X 4 L

Specific Gravity 0.850

WaterMark® KARL FISCHER SOLVENT, METHYL ALCOHOL, ANHYDROUS ITEM 3569

Specially dried methyl alcohol for use with KF Reagents 1600, 1601 and 1620. For general purpose. Not for aldehydes and ketones.

CH_3OH F.W. 32.04

Assay 99% min. Water 0.01%

CAS # 67-56-1 DOT 3/II NFPA # 3-3-1

50361	1 L
50362	6 X 1 L
50363	4 L
50364	4 X 4 L

Specific Gravity 0.791

WaterMark® KARL FISCHER TITRANT, STABLE, 5 mg/ml, NON-HYGROSCOPIC ITEM 1604

For volumetric analysis. Must be used in conjunction with KF Solvent 1609, 1610 or Buffer 1615.

Titer strength 5.00 ± 0.05 mg/ml

DOT 3/III NFPA # 2-3-1

99661	1 L
99667	6 X 1 L
99665	4 L
99614	4 X 4 L

Specific Gravity 0.900

WaterMark® KARL FISCHER TITRANT, STABLE, 2 mg/ml, NON-HYGROSCOPIC ITEM 1603

For volumetric analysis. Must be used in conjunction with KF Solvent 1609, 1610 or Buffer 1615.

Titer strength 2.0 ± 0.05 mg/ml

DOT 3/III NFPA # 2-3-1

99651	1 L
99657	6 X 1 L
99655	4 L
99613	4 X 4 L

Specific Gravity 0.900

WaterMark® KARL FISCHER TITRANT, STABLE, 1 mg/ml, NON-HYGROSCOPIC ITEM 1602

For volumetric analysis. Must be used in conjunction with KF Solvent 1609, 1610 or Buffer 1615.

Titer strength 1.00 ± 0.05 mg/ml

DOT 3/III NFPA # 2-3-1

99641	1 L
99646	6 X 1 L
99645	4 L
99647	4 X 4 L

WaterMark® KARL FISCHER TITRANT, STABLE, 0.5 mg/ml, NON-HYGROSCOPIC ITEM 1970

For volumetric analysis. Must be used in conjunction with KF solvent 1609 or 1610 or Buffer 1615.

Titer strength 0.5 mg/ml ± 0.05 mg/ml

DOT 3/III

99691	1 L
99694	6 X 1 L

Specific Gravity 0.900

WaterMark® KARL FISCHER TITRANT, 5 mg/ml, in METHANOL — ITEM 1616

Iodine/methanol volumetric titrant. Must be used in conjunction with KF Solvent 1610.

Titer Strength 5.00 ± 0.10 mg/ml Suitability Pass test

DOT 3/II

99821	1 L	
99823	6 X 1 L	
99827	4 L	
99828	4 X 4 L	**50**

Specific Gravity 0.900

WaterMark® KARL FISCHER TITRATION BOOK, 2nd EDITION — ITEM 501

Moisture Measurement: Karl Fischer Titrimetry, 2nd Edition. By A.A. Schilt. 2003.

DOT NR

99879 EACH

WaterMark® KARL FISCHER WATER STANDARD, 0.05 mg/g (50 ppm) — ITEM 2311

For checking calibration of coulometric KF equipment. Water in xylene.

Water 0.050 ± 0.003 mg/g

DOT 3/II

98981 10 X 5 ML

Specific Gravity 0.870

WaterMark® KARL FISCHER WATER STANDARD, 0.10 mg/g — ITEM 2301

For checking calibration of coulometric KF equipment.

Water 0.100 mg/g ± 0.005mg/g NIST Traceable

DOT 3/II

99842 10 X 5 ML

Specific Gravity 0.870

WaterMark® KARL FISCHER WATER STANDARD, 0.50 mg/g — ITEM 3493

For checking calibration of coulometric KF equipment.

Water 0.50 ± 0.02 mg/g NIST Traceable

DOT 3/III NFPA # 2-3-0

98962 10 X 5 ML

Specific Gravity 0.870

WaterMark® KARL FISCHER WATER STANDARD, 1.0 mg/g — ITEM 2302

Water 1.00 ± 0.03mg/g NIST Traceable

DOT 3/III NFPA # 2-3-0

99862 10 X 5 ML

Specific Gravity 0.870

WaterMark® KARL FISCHER WATER STANDARD, 5.0 mg/g — ITEM 2304

For volumetric or coulometric use. For standardization of Karl Fischer titrants or titrators.

Water content 5.00 ± 0.05 mg/g NIST Traceable

DOT 3/II NFPA # 2-3-0

98992 10 X 5 ML

WaterMark® KARL FISCHER WATER STANDARD, 10.0 mg/g — ITEM 2303

For standardization of volumetric titrants.

Water 10.0 mg/g ± 0.10mg. NIST Traceable

DOT 3/III NFPA # 2-3-0

99881 10 X 5 ML

Specific Gravity 0.850

WaterMark® KARL FISCHER WATER STANDARD, 0.10 mg/ml — ITEM 2196

For checking calibration of coulometric KF equipment.

Water 0.10 ± 0.005 mg/ml NIST Traceable
Specific Gravity approx. 0.86

DOT 3/II

99893 10 X 5 ML

Specific Gravity 0.860

WaterMark® KARL FISCHER WATER STANDARD, 1.0 mg/ml — ITEM 1618

For volumetric or coulometric use. For standardization of titrants or titrators.

Water Content 1.00 ± 0.05 mg/ml NIST Traceable
Specific Gravity approx. 0.86

DOT 3/III NFPA # 2-3-0

99733 10 X 5 ML

Specific Gravity 0.860

WaterMark® KARL FISCHER WATER STANDARD, 5.0 mg/ml — ITEM 1617

For volumetric or coulometric use. For standardization of KF titrants or titrators.

Water content 5.00 ± 0.05 mg/ml — NIST Traceable
Specific Gravity approx. 0.86

DOT 3/II — NFPA # 2-3-0

99753 10 X 5 ML

Specific Gravity 0.870

WaterMark® KARL FISCHER WATER STANDARD, POTASSIUM CITRATE — ITEM 2385

Suitable for direct determination or with KF oven at 220 C

$K_3C_6H_5O_7 \bullet H_2O$ F.W. 324.42

Water 5.55% ± 0.05%

CAS # 6100-05-6 — DOT NR — NFPA # 0-0-0

99571 10 G
99572 10 X 10 G

WOOD ALCOHOL

See Methyl Alcohol

WOODS METAL, STICK — ITEM 5474

Alloy of bismuth, lead, cadmium and tin

Lead approximately 25% — Cadmium approxmiately 12.5%
Tin approximately 12.5% — Bismuth approxmiately 50%

CAS # 76093-98-6 — DOT NR

15461 100 G
15462 500 G

XYLENES, REAGENT (ACS) — ITEM 1059

$C_6H_4(CH_3)_2$ F.W. 106.17

Assay (xylene isomers plus ethylbenzene) 98.5% — Ethylbenzene 25% max.
Residue after evaporation 0.002% — Substances darkened by sulfuric acid - Pass Test
Sulfur compounds (as SO4) 0.003% — Water 0.05%
Color (APHA) 10 max

CAS # 1330-20-7 — DOT 3/II — NFPA # 2-3-0

76771 500 ML
76772 4 L
76773 4 X 4 L
76775 20 L

Specific Gravity 0.860

o-XYLENE, 97% — ITEM 5475

$C_6H_4(CH_3)_2$ F.W. 106.17

Assay (GC-FID), 96.5% min — Appearance - Clear, colorless liquid

CAS # 95-47-6 — DOT 3/II — NFPA # 2-3-0

15381 100 ML
15382 500 ML
15383 2 L
15384 20 L

Specific Gravity 0.862

p-XYLENE, 99% — ITEM 5477

$C_6H_4(CH_3)_2$ F.W. 106.17

Assay (GC-FID), 98.5% min

CAS # 106-42-3 — DOT 3/III — NFPA # 2-3-0

17171 500 ML

Specific Gravity 0.861

XYLENOL ORANGE, SODIUM SALT, REAGENT (ACS) — ITEM 374

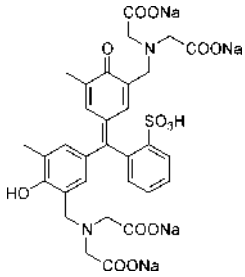
Indicator for complexometric titrations.

$C_{31}H_{28}N_2O_{13}SNa_4$ F.W. 760.60

Suitability for zinc titration Pass Test — Clarity of solution Pass Test

CAS # 3618-43-7 — DOT NR — NFPA # 1-0-1

76801 5 G
76802 10 G
76803 100 G



XYLENOL ORANGE SOLUTION, 0.10% AQUEOUS — ITEM 2170

$C_{31}H_{28}N_2O_{13}SNa_4$ F.W. 760.60

Suitability for zinc titration Pass Test

CAS # 3618-43-7 — DOT NR

25691 500 ML

Specific Gravity 1.000

W

Y-123

See Super TC-123

YTTERBIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1834

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III

23340 100 ML
23342 500 ML

Specific Gravity 1.030

YTTERBIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1833

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III

23330 100 ML
23332 500 ML

Specific Gravity 1.030

YTTERBIUM ACETATE, HYDRATE, 99.9% — ITEM 3584

$Yb(C_2H_3O_2)_3 \bullet XH_2O$ F.W. 350.17

Ytterbium content (by EDTA titration) Assay (metals basis) 99.9%

CAS # 15280-58-7 DOT NR

76811 5 G
76812 25 G
76813 100 G

YTTERBIUM ACETYLACETONATE — ITEM 5177

Not on the TSCA inventory. For R&D use only.

$Yb(C_5H_7O_2)_3 \bullet XH_2O$ F.W. 470.36 (ANHYD.)

Ytterbium content Water content

CAS # 14284-98-1 DOT NR

13621 2 G
13622 10 G

YTTERBIUM CHLORIDE, HEXAHYDRATE, 99.99% — ITEM 2246

$YbCl_3 \bullet 6H_2O$ F.W. 387.50

Assay (metals basis) 99.99% min. Ytterbium content (EDTA titration) 43.3-46.0%

CAS # 10035-01-5 DOT NR

26452 5 G
26451 25 G

YTTERBIUM CHLORIDE, HEXAHYDRATE, 99.9% — ITEM A9102

$YbCl_3 \bullet 6H_2O$ F.W. 387.50

Assay (metals basis) 99.9% Ytterbium content 43.0 - 46.0%

CAS # 10035-01-5 DOT NR

76841 25 G

YTTERBIUM FLUORIDE, 99.9% — ITEM A9111

YbF_3 F.W. 230.03

CAS # 13760-80-0 DOT NR

76861 25 G

YTTERBIUM NITRATE, PENTAHYDRATE, 99.999% — ITEM A9133

$Yb(NO_3)_3 \bullet 5H_2O$ F.W. 449.13

Assay (metals basis) 99.999% Assay (titration) 96% min.

CAS # 35725-34-9 DOT 5.1/II

76911 10 G

YTTERBIUM NITRATE, PENTAHYDRATE, 99.99% — ITEM 2247

$Yb(NO_3)_3 \bullet 5H_2O$ F.W. 449.13

Assay (metals basis) 99.99% Assay (titration) 96% min.

CAS # 35725-34-9 DOT 5.1/II

26464 5 G
26461 25 G

YTTERBIUM NITRATE, PENTAHYDRATE, 99.9% — ITEM 2485

$Yb(NO_3)_3 \bullet 5H_2O$ F.W. 449.13

Assay (metals basis) 99.9% min. Assay (titration) 96% min.

CAS # 35725-34-9 DOT 5.1/II

83961 25 G
83962 100 G

YTTERBIUM OXALATE, 99.9% — ITEM A9138

$Yb_2(C_2O_4)_3 \bullet 10H_2O$ F.W. 790.31

CAS # 996-34-9 DOT NR

76961 25 G

Y

YTTERBIUM OXALATE, 99% — ITEM A9135

$Yb_2(C_2O_4)_3 \bullet 10H_2O$ F.W. 790.31

Assay (metals basis) 99% min

CAS # 996-34-9 DOT NR

76951 25 G

YTTERBIUM OXIDE, 99.998% — ITEM A9150

Yb_2O_3 F.W. 394.08

Assay (metals basis) 99.998% min

CAS # 1314-37-0 DOT NR

77011 10 G
77012 50 G

YTTERBIUM OXIDE, 99.99% — ITEM 2248

Yb_2O_3 F.W. 394.08

Assay (Metals basis) 99.99%

CAS # 1314-37-0 DOT NR

26472 5 G
26471 25 G

YTTERBIUM OXIDE, 99.9% — ITEM 581

Yb_2O_3 F.W. 394.08

Assay (metals basis) 99.9% min.

CAS # 1314-37-0 DOT NR

77001 25 G
77002 100 G

YTTERBIUM OXYFLUORIDE, 99.99% — ITEM A9153

Not on the TSCA inventory.

YbOF F.W. 208.04

Assay (REO basis) 99.99%

CAS # 15587-02-7 DOT NR

77051 10 G

YTTERBIUM PERCHLORATE, HYDRATED, 50% SOLUTION, REAGENT — ITEM 531

$Yb(ClO_4)_3 \bullet 6H_2O$ F.W. 579.49

Ytterbium content 14.3-15.5% Insoluble 0.01%
Chloride 0.01%

CAS # 13498-08-3 DOT NR

77101 20 G
77102 50 G

YTTERBIUM SULFATE, 99.9% — ITEM A9165

$Yb_2(SO_4)_3 \bullet 8H_2O$ F.W. 778.41

CAS # 10034-98-7 DOT NR

77121 25 G

YTTERBIUM SULFATE, 99% — ITEM A9162

$Yb_2(SO_4)_3 \bullet 8H_2O$ F.W. 778.41

CAS # 10034-98-7 DOT NR

77111 25 G

YTTERBIUM TRIFLATE

See Ytterbium Trifluoromethanesulfonate, Hydrated
Ytterbium Trifluoromethanesulfonate, Anhydrous

YTTERBIUM TRIFLUOROACETATE — ITEM 3498

Not on the TSCA inventory. X hydrate is approximately 3.

$Yb(O_2CCF_3)_3 \bullet XH_2O$ F.W. 512.09

Assay (metals basis) 99.9% Assay (as anhydrous salt) 87.7-92.5%

CAS # 87863-62-5 DOT NR

13631 2 G
13632 10 G

YTTERBIUM TRIFLUOROMETHANESULFONATE, ANHYDROUS — ITEM 3547

Not on the TSCA inventory

$Yb(CF_3SO_3)_3$ F.W. 620.25

Assay 96% Water 3%

CAS # 54761-04-5 DOT NR

77071 1 G
77072 5 G
77073 25 G

YTTERBIUM TRIFLUOROMETHANESULFONATE, HYDRATED — ITEM 3548

Approximately 1-2 hydrate. Not on the TSCA inventory.

$Yb(CF_3SO_3)_3$ F.W. 620.25 + XH2O

Assay (as Yb) 25 - 28%

CAS # 252976-51-5 DOT NR

77081 5 G
77082 25 G

YTTRIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1836

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

23360 100 ML
23362 500 ML

Specific Gravity 1.030

YTTRIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1835

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

23350 100 ML
23352 500 ML

Specific Gravity 1.030

YTTRIUM ACETATE, TETRAHYDRATE, 99.99% — ITEM 5178

$Y(OOCCH_3)_3 \bullet 4H_2O$ F.W. 338.11

Assay (metals basis) 99.99% Yttrium content (by EDTA) 25.0-27.0%

CAS # 85949-60-6 DOT NR

13641 25 G
13642 100 G

YTTRIUM ACETATE, TETRAHYDRATE, 99.9% — ITEM 2970

$Y(OOCCH_3)_3 \bullet 4H_2O$ F.W. 338.11

Assay (metals basis) 99.9% Yttrium content (by EDTA) 25.0-27.0%

CAS # 85949-60-6 DOT NR

77341 25 G
77342 100 G
77343 500 G

YTTRIUM ACETYLACETONATE — ITEM 5179

Not on the TSCA inventory. For R&D use only. Degree of hydration approximately 2-3.

$Y(C_5H_7O_2)_3 \bullet XH_2O$ F.W. 386.24 (ANHYD.)

Yttrium content 20.0-21.4% Water content

CAS # 15554-47-9 DOT NR

13651 25 G
13652 100 G

YTTRIUM, BARIUM, COPPER SUPERCONDUCTOR

See Super TC-123

YTTRIUM CARBONATE, 99.999% — ITEM A9201

$Y_2(CO_3)_3 \bullet 3H_2O$ F.W. 411.89

Assay (metals basis) 99.999% min

CAS # 5970-44-5 DOT NR

77162 5 G
77161 25 G

YTTRIUM CARBONATE, 99.9% — ITEM A9198

$Y_2(CO_3)_3 \bullet 3H_2O$ F.W. 411.89

CAS # 5970-44-5 DOT NR

77151 50 G

YTTRIUM CHLORIDE, 99.99% — ITEM 2249

$YCl_3 \bullet 6H_2O$ F.W. 303.36

Assay (metals basis)
99.99% min. Yttrium content (EDTA Titration) 28.0-30.2%

CAS # 10025-94-2 DOT NR

26481 25 G
26482 100 G

YTTRIUM CHLORIDE, 99.9% — ITEM 2486

$YCl_3 \bullet 6H_2O$ F.W. 303.36

Assay (metals basis)
99.9% min. Yttrium content (EDTA Titration) 28.0-30.2%

CAS # 10025-94-2 DOT NR

83981 25 G
83982 100 G

YTTRIUM CHLORIDE, 99% — ITEM A9204

$YCl_3 \bullet 6H_2O$ F.W. 303.36

Assay (metals basis)
99% min. Yttrium Content (EDTA Titration) 28.0-30.2%

CAS # 10025-94-2 DOT NR

77171 50 G

YTTRIUM FLUORIDE, 99.9% — ITEM A9216

YF_3 F.W. 145.90

CAS # 13709-49-4 DOT NR

77191 25 G

YTTRIUM NITRATE, HEXAHYDRATE, 99.999% — ITEM A9232

$Y(NO_3)_3 \bullet 6H_2O$ F.W. 383.02

Assay (metals basis)
99.999% min. Yttrium (by EDTA titration) 22.8 - 23.5%

CAS # 13494-98-9 DOT 5.1/II

77211	10 G
77212	50 G

YTTRIUM NITRATE, HEXAHYDRATE, 99.99% — ITEM 2250

$Y(NO_3)_3 \bullet 6H_2O$ F.W. 383.02

Assay (metals basis) 99.99% min. Yttrium (by EDTA titration) 22.8 - 23.5%

CAS # 13494-98-9 DOT 5.1/II

26491	25 G
26492	100 G

YTTRIUM NITRATE, HEXAHYDRATE, 99.9% — ITEM 1216

$Y(NO_3)_3 \bullet 6H_2O$ F.W. 383.02

Assay (metals basis) 99.9% min. Yttrium (by EDTA titration) 22.8 - 23.5%

CAS # 13494-98-9 DOT 5.1/II

77201	100 G
77202	500 G
77203	2.5 KG
77204	10 KG
77205	50 KG
77206	100 KG
77207	1000 KG

YTTRIUM NITRATE, 99.9%, 50% SOLUTION — ITEM 2453

$Y(NO_3)_3 \bullet 6H_2O$ F.W. 383.02

Assay (as hexahydrate) 50-52% Y2O3/REO 99.9% min.
pH of solution (as is) 4.0-5.0

CAS # 13494-98-9 DOT NR

77291	500 ML
77292	2.5 L
77296	200 L

Specific Gravity 1.400

YTTRIUM OXALATE, 99.99% — ITEM 2251

$Y_2(C_2O_4)_3 \bullet 9H_2O$ F.W. 604.02

CAS # 13266-82-5 DOT NR

26501	25 G

YTTRIUM OXALATE, 99.95% — ITEM A9240

$Y_2(C_2O_4)_3 \bullet 9H_2O$ F.W. 604.02

CAS # 13266-82-5 DOT NR

77231	50 G

YTTRIUM OXALATE, REAGENT — ITEM 1222

$Y_2(C_2O_4)_3 \bullet 9H_2O$ F.W. 604.02

Assay (gravimetric) 97% min.

CAS # 13266-82-5 DOT NR

77221	50 G

YTTRIUM OXIDE, 99.9999% — ITEM 1522

Y_2O_3 F.W. 225.81

Assay (Metals Basis) 99.9999% min

CAS # 1314-36-9 DOT NR

77261	5 G

YTTRIUM OXIDE, 99.999% — ITEM 2461

Y_2O_3 F.W. 225.81

Assay (metals basis) 99.999% min

CAS # 1314-36-9 DOT NR

88411	25 G
88412	100 G

YTTRIUM OXIDE, 99.99% — ITEM 2252

Y_2O_3 F.W. 225.81

Assay (metals basis) 99.99% min

CAS # 1314-36-9 DOT NR

26511	25 G
26512	100 G

YTTRIUM OXIDE, 99.9% — ITEM 582

Y_2O_3 F.W. 225.81

Assay (metals basis) 99.9% min.

CAS # 1314-36-9 DOT NR

77301	25 G
77302	100 G

YTTRIUM PERCHLORATE, CRYSTALLINE HYDRATE — ITEM 5183

Not on the TSCA inventory. Approximates octahydrate formulation at the time of packaging; ca 30% water. Packaged in vials under nitrogen. Reduced-moisture salt for catalyst applications.

$Y(ClO_4)_3 \bullet XH_2O$ F.W. 388.20 + H2O

Yttrium content 16.0% min. Insoluble matter 0.01%
Chloride 0.01%

CAS # 14017-56-2 DOT 5.1/II

13691 5 G
13692 25 G
13693 100 G

YTTRIUM PERCHLORATE, HYDRATED, 50% SOLUTION, REAGENT — ITEM 532

$Y(ClO_4)_3 \bullet 6H_2O$ F.W. 495.37

Yttrium content 8.65-9.35% Insoluble 0.01%
Chloride 0.01%

CAS # 14017-56-2 DOT NR

77401 20 G
77402 50 G

YTTRIUM PHOSPHATE, 99.99% — ITEM A9261

$YPO_4 \bullet xH_2O$ F.W. 183.88 + XH_2O

CAS # 13990-54-0 DOT NR

77431 10 G

YTTRIUM SULFATE, 99% — ITEM A9264

$Y_2(SO_4)_3 \bullet 8H_2O$ F.W. 610.14

CAS # 7446-33-5 DOT NR

77451 100 G

YTTRIUM TRIFLATE

See Yttrium Trifluoromethanesulfonate, 97%

YTTRIUM TRIFLUOROACETATE — ITEM 3480

Not on the TSCA inventory.

$Y(OOCCF_3)_3 \bullet XH_2O$ F.W. 427.95

Assay (metals basis) 99.9% min. Assay 98% min.

CAS # 304851-94-4 DOT NR

14041 5 G
14042 25 G

YTTRIUM TRIFLUOROMETHANESULFONATE, 97% — ITEM 3549

Not on the TSCA inventory

$Y(CF_3SO_3)_3$ F.W. 536.11

Assay 97% min.

CAS # 52093-30-8 DOT NR

77481 5 G
77482 25 G

ZINC, 99.999% — ITEM A9279

Shot

Zn F.W. 65.39

Assay (metals basis) 99.999% min

CAS # 7440-66-6 DOT NR NFPA # 0-1-2

77521 25 G
77522 100 G

ZINC, 99.9% — ITEM A9282

Shot

Zn F.W. 65.39

Assay (metals basis) 99.9% min.

CAS # 7440-66-6 DOT NR NFPA # 0-1-2

77511 500 G

ZINC, METAL, REAGENT (ACS) — ITEM 711

Zn F.W. 65.39

Assay 99.8% min. Suitability for Arsenic determination Pass test
Iron 0.01% Lead 0.01%

CAS # 7440-66-6 DOT NR NFPA # 0-1-1

77501 500 G
77502 2.5 KG **0**

ZINC, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1838

Concentration 10,000 ± 100 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

23380 100 ML
23382 500 ML

Specific Gravity 1.030

Z

ZINC, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1837

Concentration 1,000 ± 10 ug/ml Matrix: 5% Nitric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

23370	100 ML
23372	500 ML

Specific Gravity 1.030

ZINC, 1,000 ppm STANDARD SOLUTION — ITEM 766

AA, colorimetric or volumetric standard

Concentration 1,000 ± 10 ug/ml Matrix: <5% Hydrochloric acid
NIST Traceable

DOT 8/III NFPA # 2-0-1

70360	100 ML
70362	500 ML

Specific Gravity 1.020

ZINC, AMALGAMATED — ITEM 101

20 Mesh, for use in Jones reductor.

Zn-Hg

Mercury approx. 1%

CAS # 52374-36-4 DOT NR NFPA # 0-1-1

77606	100 G
77601	500 G
77602	2.5 KG
77604	10 KG
77603	50 KG

ZINC ACETATE, DIHYDRATE, REAGENT (ACS) — ITEM 1206

$Zn(C_2H_3O_2)_2 \bullet 2H_2O$ F.W. 219.49

Assay 98.0-101.0%
pH of 5% solution 25C 6.0-7.0
Sulfate 0.005%
Calcium 0.005%
Lead 0.002%
Potassium 0.01%
Insoluble 0.005%
Chloride 0.0005%
Sodium 0.05%
Iron 0.0005%
Magnesium 0.005%

CAS # 5970-45-6 DOT NR NFPA # 1-1-0

76551	500 G
76552	2.5 KG
76553	10 KG
76554	50 KG

ZINC ACETYLACETONATE — ITEM A9291

$Zn(C_5H_7O_2)_2 \bullet 2H_2O$ F.W. 299.64

CAS # 14024-63-6 DOT NR

77571	100 G

ZINC BROMIDE, REAGENT — ITEM 1207

$ZnBr_2$ F.W. 225.18

Assay 97.5% min.
Alkalis & earths 0.2%
Lead 0.005%
Sulfate 0.01%
Iron 0.001%
Insoluble Matter 0.005%

CAS # 7699-45-8 DOT NR NFPA # 1-0-0

77611	100 G
77612	500 G
77613	2.5 KG
77614	10 KG

ZINC CARBONATE, REAGENT — ITEM 1208

$ZnCO_3$ F.W. 125.40

Assay (as Zn) 54.0-58.0% Assay (metals basis) 99%

CAS # 3486-35-9 DOT NR

Please Inquire For Sizes

ZINC CHLORIDE, 99.999% — ITEM 5079

$ZnCl_2$ F.W. 136.28

Assay (metals basis) 99.999% min.

CAS # 7646-85-7 DOT 8/III NFPA # 2-0-2

87751	5 G
87752	25 G

ZINC CHLORIDE, REAGENT (ACS) — ITEM 1060

$ZnCl_2$ F.W. 136.28

Assay 97.0% min.
Insoluble 0.005%
Sulfate 0.01%
Calcium 0.06%
Lead 0.005%
Potassium 0.02%
Oxychloride Pass test
Nitrate 0.003%
Ammonium 0.005%
Iron 0.001%
Magnesium 0.01%
Sodium 0.05%

CAS # 7646-85-7 DOT 8/III NFPA # 2-0-2

77635	100 G
77631	500 G
77632	2.5 KG
77633	10 KG
77634	50 KG

ZINC CHLORIDE, 97% — ITEM 3671

$ZnCl_2$ F.W. 136.28

Assay (by EDTA titration) 97% min.

CAS # 7646-85-7 DOT 8/III

77493	1 KG
77494	2.5 KG
77495	10 KG

ZINC CITRATE, DIHYDRATE, REAGENT ITEM 5281

Granular.

$Zn_3(C_6H_5O_7)_2 \bullet 2H_2O$ F.W. 610.36

Assay (as Zn) 31.3% min.
Sulfate 0.05%
Loss on drying (105 C) 1.0%
Chloride 0.05%

CAS # 5990-32-9 DOT NR

14901 100 G
14902 500 G
14903 2.5 KG

ZINC FLUORIDE, TETRAHYDRATE, 99.999% ITEM A9342

$ZnF_2 \bullet 4H_2O$ F.W. 175.45

CAS # 13986-18-0 DOT 6.1/III

77661 5 G

ZINC IODIDE, 99.9% ITEM 1525

ZnI_2 F.W. 319.20

Assay (metals basis) 99.9% min

CAS # 10139-47-6 DOT NR

77722 10 G
77721 50 G

ZINC LACTATE, DIHYDRATE ITEM 5282

Powder.

$Zn(C_3H_5O_3)_2 \bullet 2H_2O$ F.W. 279.51

Assay (as Zn) 22.0-24.5%
Sulfate 0.005%
Iron 5 ppm
Loss on drying 10.5-13.5%
Chloride 0.002%
Heavy metals (as Pb) 15 ppm

CAS # 16039-53-5 DOT NR

Please Inquire For Sizes

ZINC NITRATE, 99.999% ITEM 5108

x = approx. 6

$Zn(NO_3)_2 \bullet xH_2O$ F.W. 189.38 + XH2O

Assay (metals basis) 99.999% min. Zinc content 22.0-23.4%

CAS # 10196-18-6 DOT 5.1/II NFPA # 1-0-1

88041 10 G
88042 50 G
88043 250 G

ZINC NITRATE, HEXAHYDRATE, REAGENT ITEM 1061

$Zn(NO_3)_2 \bullet 6H_2O$ F.W. 297.48

Assay 98%
Chloride 0.002%
Copper 0.01%
Iron 0.0005%
Insoluble matter 0.005%
Sulfate 0.005%
Lead 0.005%

CAS # 10196-18-6 DOT 5.1/II NFPA # 1-0-1

77681 500 G
77682 2.5 KG
77683 10 KG
77684 50 KG
77685 100 KG
77686 500 KG

ZINCON, REAGENT (ACS) ITEM 566

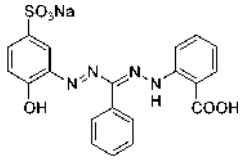
Reagent for zinc, mercury and copper. Complexometric indicator for direct titrations of zinc.

$C_{20}H_{15}N_4O_6SNa$ F.W. 462.41

Suitability as complexometric indicator Pass Test
Clarity of solution - Pass test

CAS # 62625-22-3 DOT NR

77702 5 G



ZINC OXIDE, 99.999% ITEM A9372

ZnO F.W. 81.37

CAS # 1314-13-2 DOT NR NFPA # 2-0-0

77781 25 G

ZINC OXIDE, 99.9% ITEM 3649

Average particle size about 1 micron.

ZnO F.W. 81.37

Assay (metals basis) 99.9%

CAS # 1314-13-2 DOT NR

77581 100 G
77582 500 G
77583 2.5 KG

Z

ZINC OXIDE, REAGENT (ACS) — ITEM 1062

ZnO F.W. 81.37

Assay 99.0% minimum
Alkalinity - Pass Test
Nitrate 0.003%
Sodium 0.05%
Iron 0.001%
Magnesium 0.005%
Potassium 0.01%
Insoluble in dilute sulfuric acid 0.01%
Chloride 0.001%
Sulfur compounds 0.01%
Calcium 0.005%
Lead 0.005%
Manganese 0.0005%

CAS # 1314-13-2 DOT NR NFPA # 2-0-0

77771	500 G
77772	2.5 KG

ZINC PERCHLORATE, DEHYDRATED, REAGENT — ITEM 5184

Approximates tetrahydrate formulation; ca. 24% water. Reduced-moisture salt to promote synthetic organic reactions, Bartoli, et al., J Org. Chem. (2003), 4611.

$Zn(ClO_4)_2 \bullet 4H_2O$ F.W. 336.35

Zinc content (by EDTA) 18.5 - 20.0%
Chloride 0.01%
Iron 0.005%
Insoluble matter 0.01%
Sulfate 0.01%
pH of 5% solution 4.0-6.0

CAS # 13637-61-1 DOT 5.1/II NFPA # 2-0-3

14081	25 G
14082	100 G
14083	500 G

ZINC PERCHLORATE, HEXAHYDRATE, REAGENT — ITEM 102

$Zn(ClO_4)_2 \bullet 6H_2O$ F.W. 372.38

Assay (as Zn) 16.7-18.0%
Chloride 0.01%
Iron 0.005%
Insoluble 0.01%
Sulfate 0.005%
pH of 5% solution 4.0-6.0

CAS # 10025-64-6 DOT 5.1/II NFPA # 2-0-3

77805	100 G
77801	500 G
77802	2.5 KG
77803	10 KG
77804	50 KG

ZINC PHOSPHATE, MONOBASIC, 50% SOLUTION — ITEM 2995

$Zn(H_2PO_4)_2$ F.W. 259.37

Assay 48-53%
Assay (as zinc) 12.2 - 13.3%
Phosphate (as P2O5) 37.5-38.5%
Specific Gravity 1.64-1.74
Assay (as ZnO) 15.0-16.5%
P2O5/ZnO ratio 2.30-2.55

CAS # 58968-26-6 DOT 8/III

77811	1 L
77812	6 X 1 L
77813	4 L
77814	4 X 4 L
77815	20 L

Specific Gravity 1.700

ZINC SELENIDE, 99.95% — ITEM A9381

ZnSe F.W. 144.35

Assay (metals basis) 99.95% min.

CAS # 1315-09-9 DOT 6.1/II NFPA # 2-0-1

77831	25 G

ZINC SULFATE, 99.999% — ITEM 5101

$ZnSO_4 \bullet 7H_2O$ F.W. 287.54

Assay (metals basis) 99.999% min.

CAS # 7446-20-0 DOT NR NFPA # 1-0-0

87971	10 G
87972	50 G

ZINC SULFATE, REAGENT (ACS) — ITEM 669

$ZnSO_4 \bullet 7H_2O$ F.W. 287.54

Assay 99.0-103.0%
pH of 5% solution 4.4-6.0 25C
Nitrate 0.002%
Sodium 0.05%
Iron 0.001%
Magnesium 0.005%
Potassium 0.01%
Insoluble 0.01%
Chloride 0.0005%
Ammonium 0.001%
Calcium 0.005%
Lead 0.003%
Manganese 0.0003%

CAS # 7446-20-0 DOT NR NFPA # 1-0-0

77851	500 G
77852	2.5 KG
77853	10 KG
77854	50 KG

ZINC SULFIDE, 99.99% — ITEM A9396

ZnS F.W. 97.46

Assay (metals basis) 99.99% min.

CAS # 1314-98-3 DOT NR

77871	10 G

ZINC TELLURIDE, 99.999% — ITEM 1527

ZnTe F.W. 192.98

Assay (metals basis) 99.999% min

CAS # 1315-11-3 DOT NR

77741	25 G

ZINC TITANATE, 98% — ITEM A9405

$ZnTiO_3$ F.W. 161.27

Assay (metals basis) 98% min.

CAS # 12036-43-0 DOT NR

77891	100 G

ZINC TRIFLATE

See Zinc Trifluoromethanesulfonate, 98%

ZINC TRIFLUOROMETHANESULFONATE, 98% — ITEM 3550

$Zn(CF_3SO_3)_2$ F.W. 363.51

Assay 98%

CAS # 54010-75-2 DOT 8/II

77591 10 G
77592 50 G

ZIRCONIUM, 99.8% — ITEM A9414

Sponge

Zr F.W. 91.22

Assay (metals basis) 99.9% min.

CAS # 7440-67-7 DOT NR

Please Inquire For Sizes

ZIRCONIUM, 10,000 ppm ICP STANDARD SOLUTION — ITEM 1840

Concentration 10,000 ± 100 ug/ml Matrix: 5% Hydrochloric acid
NIST Traceable

DOT 8/II NFPA # 2-0-2

23400 100 ML
23402 500 ML

Specific Gravity 1.010

ZIRCONIUM, 1,000 ppm ICP STANDARD SOLUTION — ITEM 1839

Concentration 1,000 ± 10 ug/ml Matrix: 5% Hydrochloric acid
NIST Traceable

DOT 8/II NFPA # 2-0-2

23390 100 ML
23392 500 ML

Specific Gravity 1.010

ZIRCONIUM ACETYLACETONATE — ITEM A9417

$Zr(C_5H_7O_2)_4$ F.W. 487.67

Assay (metals basis) 99.99%

CAS # 17501-44-9 DOT NR

77931 100 G

ZIRCONIUM n-BUTOXIDE, 80% (W/W) in 1-BUTANOL — ITEM 3475

$Zr[O(CH_2)_3CH_3]_4$ F.W. 383.68

Assay 80 ± 1%

CAS # 1071-76-7 DOT 3/III

10071 100 ML
10072 500 ML

Specific Gravity 1.070

ZIRCONIUM CHLORIDE, 99.9% — ITEM 1531

$ZrCl_4$ F.W. 233.03

Assay (metals basis) 99.9% min

CAS # 10026-11-6 DOT 8/III

77324 25 G
77321 100 G

ZIRCONIUM FLUORIDE, 99.5% — ITEM 1532

ZrF_4 F.W. 167.21

Assay (metals basis) 99.5% min.

CAS # 7783-64-4 DOT 6.1/III

77331 25 G

ZIRCONIUM NITRIDE, 99% — ITEM A9447

ZrN F.W. 105.23

Assay (metals basis) 99% min.

CAS # 25658-42-8 DOT NR

77951 50 G

ZIRCONIUM OXIDE, 99.99% — ITEM 5102

ZrO_2 F.W. 123.22

Assay (metals basis) 99.99% min.

CAS # 1314-23-4 DOT NR

87981 10 G
87982 50 G

ZIRCONIUM OXIDE, 99.7% — ITEM 1590

Powder

ZrO_2 F.W. 123.22

Assay (metals basis) 99.7% min

CAS # 1314-23-4 DOT NR

77820 25 G
77821 100 G

Z

ZIRCONIUM OXYCHLORIDE

See Zirconyl Chloride, Hydrated

ZIRCONIUM n-PROPOXIDE, 70% (W/W) in n-PROPYL ALCOHOL — ITEM 3675

$Zr(OCH_2CH_2CH_3)_4$ F.W. 327.58

Concentration 70 ± 1% (w/w)

CAS # 23519-77-9 DOT 3/II

78031 100 ML
78032 500 ML

Specific Gravity 1.044

ZIRCONIUM SILICATE, 99% — ITEM 1535

325 Mesh

$ZrSiO_4$ F.W. 183.30

Assay (metals basis) 99% min.

CAS # 10101-52-7 DOT NR

77311 100 G
77312 500 G

ZIRCONIUM SILICATE, 97% — ITEM 5198

$ZrSiO_4$ F.W. 183.30

Assay (Zr + Hf silicate) 97% Hafnium content 4% max.
Particle size -325 mesh 95% min.

CAS # 10101-52-7 DOT NR

14241 100 G
14242 500 G

ZIRCONIUM SILICIDE, 99.5% — ITEM A9465

$ZrSi_2$ F.W. 147.39

CAS # 12039-90-6 DOT NR

77981 50 G

ZIRCONIUM SULFATE, TETRAHYDRATE, 99.99% (Low Hf) — ITEM 5081

$Zr(SO_4)_2 \bullet 4H_2O$ F.W. 355.41

Assay (metals basis) 99.99% min.

CAS # 14644-61-2 DOT 8/III

87771 10 G
87772 50 G

ZIRCONYL CHLORIDE, OCTAHYDRATE, 99.99+% (Low Hf) — ITEM 5080

$ZrOCl_2 \bullet xH_2O$ F.W. 178.13 (ANHY.)

Assay (metals basis) 99.99+% min. Zr content (report)

CAS # 15461-27-5 DOT 8/III

87761 5 G
87762 25 G

ZIRCONYL CHLORIDE, HYDRATED, TECHNICAL — ITEM 1063

X hydrate typically between 5-8

$ZrOCl_2 \bullet 8H_2O$ F.W. 322.25

Zirconium content 28.0 - 35.0%

CAS # 13520-92-8 DOT 8/III

77881 100 G
77882 500 G

ZIRCONYL PERCHLORATE, HYDRATED, REAGENT — ITEM 280

$ZrO(ClO_4)_2 \bullet 8H_2O$ F.W. 450.26

pH of 5% solution 0-3 Chloride 0.02%
Sulfate 0.02% Iron 0.005%

CAS # 12591-05-8 DOT 5.1/II

77903 25 G
77901 100 G
77902 500 G

ZOBELL SOLUTION, ORP STANDARD — ITEM 5525

ORP Value +228 mV

DOT NR

17781 500 ML
17782 4 L

Z

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A0423	54	**A1749**	110	**A3039**	184	**A4068**	241	**A5250**	288
A0438	55	**A1821**	118	**A3051**	184	**A4069**	241	**A5253**	288
A0477	56	**A1836**	119	**A3060**	184	**A4074**	241	**A5268**	288
A0513	58	**A1839**	119	**A3066**	184	**A4092**	242	**A5271**	288
A0519	58	**A1872**	119	**A3075**	184	**A4107**	242	**A5277**	289
A0606	59	**A1977**	122	**A3090**	184	**A4110**	242	**A5292**	290
A0642	60	**A1998**	122	**A3093**	185	**A4119**	243	**A5317**	290
A0699	61	**A2019**	122	**A3096**	185	**A4128**	243	**A5322**	290
A0705	61	**A2022**	123	**A3159**	194	**A4149**	244	**A5337**	290
A0735	62	**A2025**	123	**A3162**	194	**A4164**	244	**A5409**	292
A0747	63	**A2034**	123	**A3174**	195	**A4173**	244	**A5454**	293
A0750	63	**A2070**	123	**A3177**	195	**A4179**	244	**A5469**	293
A0780	63	**A2076**	123	**A3180**	195	**A4182**	244	**A5566**	307
A0783	63	**A2112**	124	**A3186**	195	**A4189**	245	**A5949**	333
A0849	64	**A2124**	124	**A3189**	195	**A4209**	245	**A6021**	338
A0882	64	**A2166**	126	**A3198**	195	**A4230**	246	**A6033**	338
A0885	64	**A2175**	128	**A3201**	195	**A4305**	247	**A6036**	339
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A0958	69	**A2214**	128	**A3219**	195	**A4341**	248	**A6174**	342
A0996	70	**A2238**	129	**A3228**	195	**A4359**	248	**A6240**	347
A1020	72	**A2256**	129	**A3240**	196	**A4413**	250	**A6288**	348
A1032	71	**A2268**	129	**A3243**	196	**A4464**	252	**A6327**	349
A1113	445	**A2277**	129	**A3252**	196	**A4518**	253	**A6333**	349
A1146	73	**A2293**	132	**A3279**	197	**A4521**	253	**A6342**	349
A1167	74	**A2304**	130	**A3306**	197	**A4527**	253	**A6348**	350
A1299	90	**A2322**	131	**A3351**	197	**A4539**	253	**A6351**	349
A1320	91	**A2796**	167	**A3438**	199	**A4581**	254	**A6357**	350
A1323	91	**A2820**	168	**A3444**	199	**A4602**	254	**A6378**	350
A1353	92	**A2826**	168	**A3451**	199	**A4623**	255	**A6387**	350
A1401	93	**A2829**	168	**A3576**	213	**A4635**	256	**A6393**	350
A1488	96	**A2838**	168	**A3588**	213	**A4674**	256	**A6396**	350
A1494	96	**A2847**	169	**A3600**	214	**A4740**	259	**A6402**	350
A1497	96	**A2856**	171	**A3684**	225	**A4743**	259	**A6417**	351
A1506	96	**A2865**	171	**A3690**	225	**A4746**	259	**A6588**	360
A1521	97	**A2871**	172	**A3721**	225	**A4752**	259	**A6591**	360
A1539	98	**A2874**	172	**A3738**	226	**A4800**	260	**A6603**	360
A1620	106	**A2880**	172	**A3741**	225	**A4806**	260	**A6615**	360
A1635	107	**A2883**	172	**A3744**	226	**A4827**	260	**A6672**	363
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A6696	363	**A7882**	412	**A9465**	468	**75**	331	**170**	383
A6714	363	**A7884**	413	**2**	43	**78**	336	**171**	383
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A6739	364	**A7908**	413	**5**	63	**80**	343	**176**	446
A6741	364	**A8109**	424	**7**	63	**81**	344	**177**	413
A6744	364	**A8139**	423	**8**	64	**82**	367	**181**	357
A6774	365	**A8220**	425	**10**	158	**83**	372	**184**	193
A6801	366	**A8229**	425	**12**	97	**84**	373	**185**	193
A6831	371	**A8259**	426	**13**	103	**86**	375	**192**	451
A6837	371	**A8358**	427	**14**	102	**87**	375	**193**	452
A6840	371	**A8367**	427	**15**	102	**89**	388	**198**	101
A6846	366	**A8373**	428	**16**	103	**90**	390	**221**	251
A6867	372	**A8403**	428	**17**	104	**91**	391	**222**	93
A7092	377	**A8414**	428	**20**	104	**92**	392	**225**	415
A7137	379	**A8841**	447	**21**	104	**93**	388	**226**	235
A7158	380	**A8856**	448	**24**	105	**94**	391	**230**	314
A7188	381	**A8862**	448	**25**	105	**96**	404	**231**	176
A7206	382	**A8865**	448	**26**	105	**97**	405	**233**	250
A7230	393	**A8880**	448	**27**	106	**98**	405	**240**	65
A7248	383	**A8895**	448	**29**	107	**99**	448	**241**	153
A7251	397	**A8991**	451	**30**	107	**101**	464	**246**	173
A7272	384	**A9102**	459	**32**	108	**102**	466	**247**	161
A7290	384	**A9111**	459	**33**	108	**103**	44	**249**	358
A7302	385	**A9133**	459	**36**	124	**107**	62	**250**	150
A7344	388	**A9135**	460	**38**	130	**108**	65	**261**	93
A7353	388	**A9138**	459	**39**	187	**109**	69	**265**	92
A7395	390	**A9150**	460	**40**	187	**114**	69	**267**	292
A7419	391	**A9153**	460	**41**	188	**117**	135	**269**	357
A7434	392	**A9162**	460	**42**	188	**118**	72	**273**	407
A7476	394	**A9165**	460	**44**	231	**120**	74	**275**	174
A7491	395	**A9198**	461	**46**	34	**127**	152	**276**	194
A7563	399	**A9201**	461	**49**	245	**128**	152	**277**	134
A7566	399	**A9204**	461	**50**	245	**132**	155	**278**	99
A7638	403	**A9216**	461	**53**	251	**133**	157	**280**	468
A7647	403	**A9232**	462	**54**	257	**134**	157	**282**	224
A7675	404	**A9240**	462	**55**	257	**136**	158	**283**	157
A7677	404	**A9261**	463	**56**	257	**139**	162	**286**	65
A7680	404	**A9264**	463	**57**	261	**140**	174	**289**	348
A7710	405	**A9279**	463	**60**	263	**141**	174	**290**	382
A7764	410	**A9282**	463	**62**	292	**142**	224	**291**	446
A7770	410	**A9291**	464	**63**	294	**143**	222	**294**	65
A7776	410	**A9342**	465	**64**	306	**144**	223	**296**	225
A7785	410	**A9372**	465	**65**	314	**145**	269	**297**	343
A7788	411	**A9381**	466	**66**	315	**152**	286	**300**	422
A7830	411	**A9396**	466	**67**	314	**154**	155	**301**	93
A7841	412	**A9405**	466	**68**	316	**162**	317	**303**	246
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312	249	**508**	221	**573**	168	**631**	123	**686**	126
315	251	**510**	422	**574**	173	**633**	241	**687**	128
317	422	**511**	418	**575**	196	**634**	240	**688**	134
321	317	**512**	419	**576**	214	**635**	239	**689**	176
324	355	**514**	161	**577**	241	**636**	184	**690**	223
328	80	**516**	355	**578**	288	**637**	184	**691**	242
330	177	**518**	365	**579**	350	**638**	253	**692**	245
331	451	**519**	105	**580**	364	**639**	253	**693**	264
333	451	**521**	96	**581**	460	**640**	413	**694**	274
335	269	**522**	97	**582**	462	**641**	413	**695**	278
337	94	**523**	169	**583**	318	**642**	425	**696**	282
340	361	**524**	173	**584**	318	**643**	425	**697**	292
341	110	**525**	196	**588**	40	**644**	42	**699**	318
347	249	**526**	214	**589**	257	**645**	48	**700**	327
348	256	**527**	241	**590**	160	**646**	53	**701**	347
351	197	**528**	288	**593**	344	**647**	55	**702**	355
352	318	**529**	351	**596**	437	**648**	73	**703**	373
353	414	**530**	364	**597**	445	**649**	121	**704**	378
354	104	**531**	460	**598**	43	**650**	193	**705**	381
357	72	**532**	463	**599**	49	**652**	307	**707**	400
365	161	**538**	187	**601**	52	**653**	334	**710**	426
366	419	**539**	296	**602**	62	**654**	342	**711**	463
367	194	**540**	420	**603**	128	**655**	343	**712**	190
369	362	**542**	127	**605**	185	**656**	377	**714**	35
370	69	**543**	127	**606**	187	**657**	382	**715**	53
371	185	**544**	236	**607**	244	**658**	390	**716**	105
373	344	**545**	236	**608**	247	**659**	391	**717**	100
374	458	**547**	47	**609**	247	**660**	216	**718**	189
376	258	**548**	130	**610**	249	**661**	324	**720**	161
378	373	**550**	187	**611**	250	**662**	325	**721**	198
380	376	**551**	188	**612**	252	**666**	131	**722**	218
381	142	**552**	221	**613**	262	**667**	38	**723**	231
382	218	**554**	331	**614**	263	**668**	38	**724**	255
384	335	**555**	332	**615**	372	**669**	466	**725**	258
385	377	**556**	344	**616**	372	**670**	39	**726**	319
390	432	**557**	345	**617**	372	**671**	40	**727**	324
391	431	**558**	385	**618**	375	**672**	58	**728**	324
394	415	**559**	390	**619**	384	**673**	67	**729**	332
395	249	**560**	397	**620**	403	**674**	74	**730**	336
397	406	**561**	398	**621**	293	**675**	74	**731**	345
400-420	400	**562**	401	**622**	45	**676**	75	**732**	346
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493	314	**564**	424	**624**	34	**679**	81	**734**	392
494	314	**565**	424	**625**	217	**680**	82	**735**	393
496	316	**566**	465	**626**	295	**681**	83	**736**	399
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741	74	**792**	327	**848**	56	**903**	130	**956**	263
742	75	**793**	330	**849**	57	**904**	132	**957**	264
743	91	**794**	343	**852**	59	**905**	132	**958**	265
744	93	**795**	348	**853**	59	**906**	133	**959**	270
745	106	**797**	357	**854**	60	**907**	134	**960**	276
746	111	**798**	358	**855**	61	**908**	135	**961**	279
747	119	**799**	362	**856**	62	**909**	144	**962**	279
748	122	**800**	382	**857**	63	**910**	145	**963**	281
749	239	**801**	382	**858**	63	**913**	153	**964**	281
750	243	**802**	388	**859**	64	**915**	156	**965**	281
751	246	**803**	395	**860**	66	**916**	177	**966**	283
752	254	**804**	396	**861**	69	**917**	178	**967**	283
753	259	**805**	397	**862**	70	**918**	175	**968**	286
754	264	**806**	397	**863**	71	**919**	77	**969**	289
755	289	**807**	403	**864**	71	**920**	177	**970**	289
756	293	**808**	404	**865**	86	**921**	186	**971**	290
757	314	**809**	411	**866**	90	**922**	186	**972**	290
758	325	**810**	51	**867**	91	**923**	188	**973**	291
759	330	**811**	52	**868**	92	**924**	192	**977**	296
760	372	**814**	267	**869**	92	**925**	196	**978**	308
761	376	**817**	238	**870**	92	**926**	198	**979**	317
762	402	**819**	252	**871**	92	**927**	206	**980**	318
763	406	**820**	426	**872**	92	**928**	207	**982**	327
764	427	**821**	426	**873**	93	**929**	215	**983**	328
765	451	**822**	158	**874**	94	**930**	215	**984**	331
766	464	**823**	158	**875**	94	**931**	219	**985**	333
768	103	**824**	450	**876**	95	**932**	220	**986**	333
769	143	**825**	405	**877**	95	**933**	224	**987**	334
770	143	**826**	332	**878**	96	**934**	236	**988**	339
771	221	**827**	33	**879**	96	**935**	239	**989**	335
772	43	**828**	36	**880**	97	**936**	243	**991**	338
773	49	**829**	36	**881**	98	**937**	243	**992**	338
774	53	**830**	37	**882**	98	**938**	244	**993**	338
775	57	**831**	38	**883**	99	**939**	244	**996**	343
776	60	**832**	39	**884**	101	**940**	249	**997**	346
777	61	**833**	41	**886**	109	**941**	254	**998**	356
778	81	**834**	41	**887**	110	**943**	257	**1000**	358
779	97	**835**	41	**888**	110	**944**	258	**1001**	358
780	99	**836**	46	**889**	111	**945**	260	**1002**	358
781	120	**837**	47	**890**	117	**946**	260	**1003**	359
782	120	**838**	47	**891**	119	**947**	261	**1004**	359
783	123	**839**	47	**892**	119	**948**	261	**1005**	359
784	128	**840**	48	**893**	120	**949**	261	**1006**	359
785	239	**841**	49	**894**	121	**950**	261	**1007**	359
786	256	**842**	52	**895**	122	**951**	262	**1008**	359
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1015	360	**1075**	310	**1172**	280	**1233**	36	**1346**	98
1016	361	**1076**	336	**1173**	290	**1234**	113	**1347**	98
1017	361	**1077**	357	**1174**	291	**1235**	133	**1352**	99
1018	361	**1078**	382	**1176**	295	**1236**	144	**1355**	105
1020	124	**1079**	395	**1178**	332	**1237**	175	**1364**	108
1022	377	**1080**	53	**1179**	334	**1238**	177	**1365**	109
1023	378	**1083**	222	**1180**	335	**1239**	201	**1366**	109
1025	379	**1084**	377	**1181**	336	**1240**	266	**1367**	109
1026	379	**1085**	236	**1182**	340	**1241**	309	**1383**	122
1027	380	**1087**	210	**1183**	340	**1242**	317	**1391**	127
1028	381	**1093**	192	**1184**	340	**1243**	238	**1396**	131
1029	381	**1096**	447	**1185**	341	**1244**	419	**1398**	132
1031	384	**1097**	336	**1186**	345	**1245**	429	**1400**	189
1033	388	**1098**	332	**1187**	346	**1246**	438	**1402**	194
1034	389	**1099**	390	**1188**	347	**1248**	168	**1418**	243
1035	393	**1100**	86	**1189**	366	**1249**	184	**1419**	243
1036	394	**1101**	86	**1190**	373	**1250**	213	**1420**	245
1037	394	**1106**	295	**1191**	386	**1251**	213	**1428**	246
1038	394	**1108**	357	**1192**	386	**1252**	213	**1430**	246
1039	395	**1109**	410	**1193**	386	**1253**	213	**1432**	248
1040	396	**1110**	429	**1194**	387	**1254**	214	**1433**	248
1041	398	**1111**	431	**1195**	398	**1255**	223	**1434**	250
1042	400	**1114**	67	**1196**	401	**1256**	253	**1438**	251
1043	401	**1120**	160	**1197**	402	**1257**	264	**1442**	252
1044	405	**1130**	275	**1198**	409	**1258**	189	**1443**	252
1045	405	**1133**	41	**1199**	409	**1261**	33	**1444**	252
1046	406	**1134**	47	**1200**	409	**1262**	192	**1447**	254
1047	414	**1136**	52	**1201**	408	**1264**	408	**1448**	256
1050	428	**1138**	57	**1203**	420	**1265**	193	**1452**	257
1051	429	**1139**	52	**1204**	421	**1266**	193	**1456**	258
1052	430	**1140**	57	**1205**	427	**1267**	193	**1464**	282
1053	432	**1143**	62	**1206**	464	**1277**	307	**1468**	282
1054	434	**1147**	91	**1207**	464	**1278**	295	**1469**	286
1055	438	**1148**	95	**1208**	464	**1279**	326	**1479**	292
1059	458	**1149**	123	**1211**	187	**1280**	295	**1483**	347
1060	464	**1150**	93	**1215**	74	**1281**	428	**1485**	349
1061	465	**1151**	161	**1216**	462	**1282**	170	**1486**	360
1062	466	**1152**	162	**1217**	334	**1284**	105	**1489**	363
1063	468	**1156**	185	**1219**	187	**1285**	374	**1491**	378
1064	143	**1158**	187	**1220**	74	**1287**	224	**1492**	384
1066	359	**1160**	214	**1221**	196	**1292**	42	**1494**	424
1067	281	**1161**	218	**1222**	462	**1298**	50	**1496**	399
1068	359	**1162**	218	**1223**	71	**1304**	54	**1497**	388
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1070	66	**1164**	231	**1227**	247	**1328**	71	**1502**	404
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1512	407	**1600**	455	**1682**	202	**1739**	197	**1788**	357
1513	417	**1601**	455	**1683**	162	**1740**	197	**1789**	358
1514	417	**1602**	456	**1685**	35	**1741**	197	**1790**	358
1515	420	**1603**	456	**1686**	379	**1742**	199	**1791**	360
1516	421	**1604**	456	**1687**	251	**1743**	199	**1792**	360
1522	462	**1607**	454	**1692**	397	**1744**	199	**1793**	361
1525	465	**1609**	455	**1693**	344	**1745**	199	**1794**	361
1527	466	**1610**	456	**1694**	94	**1746**	213	**1795**	362
1531	467	**1611**	454	**1695**	331	**1747**	213	**1796**	362
1532	467	**1612**	453	**1697**	91	**1748**	225	**1797**	364
1535	468	**1613**	453	**1698**	380	**1749**	225	**1798**	364
1539	95	**1615**	453	**1700**	40	**1750**	235	**1799**	366
1540	97	**1616**	457	**1701**	40	**1751**	235	**1800**	366
1542	377	**1617**	458	**1702**	58	**1752**	235	**1801**	371
1543	222	**1618**	457	**1703**	58	**1753**	235	**1802**	371
1544	127	**1619**	454	**1704**	60	**1754**	239	**1803**	372
1548	98	**1620**	455	**1705**	60	**1755**	239	**1804**	372
1549	404	**1621**	455	**1706**	61	**1756**	243	**1805**	376
1550	197	**1622**	454	**1707**	61	**1757**	242	**1806**	376
1551	385	**1623**	454	**1708**	68	**1758**	246	**1807**	402
1552	410	**1625**	453	**1709**	68	**1759**	246	**1808**	402
1553	161	**1631**	82	**1710**	71	**1760**	253	**1809**	407
1556	99	**1632**	82	**1711**	71	**1761**	252	**1810**	406
1557	408	**1633**	82	**1712**	73	**1762**	254	**1811**	410
1559	399	**1634**	82	**1713**	73	**1763**	254	**1812**	410
1560	225	**1635**	83	**1714**	91	**1764**	259	**1813**	411
1563	337	**1636**	83	**1715**	91	**1765**	259	**1814**	411
1564	341	**1637**	83	**1716**	93	**1766**	264	**1815**	412
1565	409	**1638**	83	**1717**	93	**1767**	264	**1816**	412
1567	58	**1639**	83	**1718**	101	**1768**	282	**1817**	423
1568	282	**1640**	83	**1719**	100	**1769**	282	**1818**	423
1569	366	**1641**	83	**1720**	106	**1770**	287	**1819**	424
1570	235	**1642**	83	**1721**	106	**1771**	287	**1820**	424
1571	107	**1643**	83	**1722**	108	**1772**	289	**1821**	424
1572	217	**1644**	84	**1723**	108	**1773**	289	**1822**	424
1573	386	**1645**	84	**1725**	118	**1774**	293	**1823**	426
1574	104	**1646**	84	**1726**	122	**1775**	293	**1824**	426
1575	104	**1647**	84	**1727**	121	**1776**	306	**1825**	427
1576	451	**1648**	341	**1728**	126	**1777**	307	**1826**	427
1578	222	**1649**	380	**1729**	126	**1778**	307	**1827**	448
1579	385	**1671**	454	**1730**	167	**1779**	326	**1828**	447
1587	196	**1672**	389	**1731**	167	**1780**	326	**1829**	450
1588	121	**1673**	293	**1732**	171	**1781**	328	**1830**	450
1589	326	**1674**	340	**1733**	171	**1782**	328	**1831**	450
1590	467	**1675**	373	**1734**	183	**1783**	330	**1832**	450
1591	240	**1677**	316	**1735**	183	**1784**	330	**1833**	459
1593	354	**1679**	266	**1736**	194	**1785**	349	**1834**	459
1597	66	**1680**	421	**1737**	194	**1786**	349	**1835**	461
1598	87	**1681**	67	**1738**	197	**1787**	357	**1836**	461

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1838	463	**1925**	345	**2031**	57	**2110**	378	**2204**	104
1839	467	**1926**	331	**2032**	59	**2111**	379	**2205**	107
1840	467	**1927**	341	**2033**	62	**2114**	380	**2206**	104
1841	284	**1928**	342	**2034**	62	**2116**	381	**2207**	168
1842	285	**1929**	343	**2035**	66	**2119**	381	**2208**	169
1843	285	**1931**	344	**2037**	72	**2124**	382	**2209**	168
1844	284	**1932**	347	**2038**	73	**2128**	384	**2210**	168
1846	285	**1934**	376	**2039**	73	**2129**	387	**2211**	168
1847	351	**1935**	377	**2040**	75	**2130**	387	**2212**	173
1850	38	**1936**	380	**2041**	75	**2131**	387	**2213**	172
1852	223	**1937**	382	**2042**	81	**2133**	386	**2214**	172
1853	379	**1938**	393	**2043**	81	**2134**	387	**2215**	184
1859	101	**1939**	392	**2045**	100	**2137**	390	**2216**	195
1860	62	**1940**	379	**2048**	121	**2139**	390	**2217**	214
1861	344	**1942**	389	**2051**	124	**2144**	398	**2218**	240
1864	284	**1943**	388	**2053**	131	**2145**	398	**2219**	240
1865	284	**1944**	395	**2054**	131	**2146**	399	**2220**	253
1866	284	**1945**	397	**2057**	127	**2148**	401	**2221**	287
1868	285	**1947**	398	**2061**	157	**2149**	401	**2222**	287
1869	286	**1948**	446	**2065**	185	**2150**	401	**2223**	288
1874	285	**1949**	447	**2066**	186	**2152**	402	**2224**	288
1875	284	**1950**	391	**2068**	186	**2155**	406	**2225**	349
1877	356	**1963**	452	**2069**	186	**2157**	409	**2226**	349
1889	454	**1970**	456	**2070**	191	**2158**	408	**2227**	350
1893	455	**1971**	121	**2071**	218	**2160**	411	**2228**	351
1894	455	**1972**	340	**2072**	222	**2161**	426	**2229**	350
1895	426	**1973**	224	**2073**	231	**2163**	427	**2230**	350
1896	429	**1974**	118	**2075**	243	**2167**	453	**2231**	350
1901	46	**1975**	354	**2076**	245	**2168**	453	**2232**	350
1902	48	**1976**	340	**2080**	262	**2169**	453	**2233**	351
1903	55	**1977**	408	**2081**	270	**2170**	458	**2234**	363
1904	54	**1980**	270	**2083**	275	**2171**	217	**2235**	363
1905	53	**1982**	338	**2084**	278	**2172**	386	**2236**	363
1906	55	**1983**	105	**2085**	278	**2173**	409	**2237**	363
1907	73	**1984**	340	**2086**	280	**2174**	125	**2238**	364
1908	95	**1986**	369	**2089**	296	**2176**	84	**2239**	413
1909	97	**1989**	387	**2090**	296	**2177**	398	**2240**	425
1911	109	**1991**	111	**2091**	307	**2180**	216	**2241**	425
1914	199	**1993**	338	**2093**	355	**2182**	325	**2242**	425
1915	249	**1995**	266	**2094**	319	**2185**	215	**2243**	425
1916	250	**2001**	33	**2095**	319	**2187**	374	**2244**	425
1917	250	**2004**	35	**2098**	335	**2188**	340	**2245**	425
1918	252	**2005**	35	**2100**	338	**2191**	342	**2246**	459
1919	255	**2006**	35	**2101**	338	**2196**	457	**2247**	459
1920	256	**2012**	39	**2102**	342	**2197**	134	**2248**	460
1921	258	**2013**	39	**2103**	348	**2198**	386	**2249**	461
1922	333	**2020**	48	**2106**	374	**2201**	106	**2250**	462
1923	334	**2024**	53	**2107**	374	**2202**	107	**2251**	462

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2253	106	**2341**	82	**2418**	134	**2492**	419	**2583**	34
2255	409	**2343**	47	**2421**	260	**2493**	430	**2584**	51
2258	104	**2345**	322	**2423**	295	**2494**	438	**2585**	193
2259	71	**2346**	146	**2424**	306	**2495**	134	**2586**	217
2261	161	**2347**	430	**2425**	307	**2497**	207	**2587**	294
2262	415	**2348**	419	**2426**	348	**2510**	149	**2588**	408
2263	335	**2349**	111	**2427**	376	**2511**	176	**2589**	34
2264	107	**2350**	207	**2428**	398	**2512**	66	**2590**	51
2267	268	**2351**	107	**2429**	401	**2514**	294	**2591**	192
2268	268	**2354**	331	**2432**	414	**2518**	416	**2592**	216
2269	341	**2355**	66	**2433**	414	**2520**	418	**2593**	314
2270	332	**2357**	418	**2434**	416	**2523**	421	**2594**	407
2272	256	**2359**	147	**2435**	415	**2524**	421	**2595**	249
2273	141	**2361**	328	**2436**	415	**2525**	422	**2597**	75
2274	342	**2362**	328	**2437**	418	**2527**	423	**2598**	76
2275	421	**2363**	283	**2438**	418	**2528**	423	**2599**	77
2277	119	**2364**	283	**2439**	418	**2530**	112	**2600**	77
2278	119	**2366**	156	**2440**	418	**2531**	289	**2601**	78
2279	118	**2369**	422	**2442**	421	**2532**	232	**2602**	78
2280	121	**2377**	413	**2443**	421	**2533**	252	**2603**	79
2281	244	**2379**	77	**2447**	345	**2534**	248	**2605**	308
2282	257	**2381**	125	**2448**	220	**2535**	218	**2607**	356
2284	331	**2384**	37	**2449**	56	**2537**	402	**2608**	422
2285	46	**2385**	458	**2450**	306	**2540**	160	**2611**	189
2286	319	**2387**	73	**2452**	191	**2542**	216	**2612**	189
2288	383	**2388**	33	**2453**	462	**2543**	294	**2613**	189
2289	278	**2390**	68	**2454**	395	**2545**	120	**2614**	189
2290	339	**2391**	68	**2456**	382	**2546**	332	**2616**	189
2291	386	**2392**	85	**2457**	451	**2547**	291	**2617**	189
2294	238	**2393**	86	**2458**	170	**2548**	84	**2618**	40
2295	236	**2394**	113	**2461**	462	**2549**	82	**2619**	40
2296	407	**2395**	144	**2462**	414	**2550**	333	**2620**	40
2297	247	**2396**	194	**2463**	155	**2551**	206	**2621**	166
2298	41	**2397**	198	**2464**	322	**2552**	378	**2622**	167
2299	58	**2398**	221	**2474**	219	**2553**	255	**2623**	166
2301	457	**2399**	215	**2475**	340	**2555**	273	**2624**	167
2302	457	**2400**	231	**2477**	315	**2556**	428	**2625**	166
2303	457	**2403**	267	**2478**	316	**2559**	33	**2626**	167
2304	457	**2404**	302	**2481**	36	**2560**	190	**2627**	167
2305	219	**2405**	47	**2482**	37	**2562**	81	**2628**	167
2311	457	**2406**	127	**2483**	266	**2567**	67	**2629**	167
2321	453	**2409**	327	**2484**	144	**2574**	251	**2631**	348
2323	295	**2410**	339	**2485**	459	**2575**	266	**2633**	424
2325	82	**2411**	353	**2486**	461	**2576**	246	**2634**	100
2330	218	**2412**	389	**2487**	202	**2577**	436	**2635**	100
2334	260	**2413**	392	**2488**	175	**2578**	336	**2636**	100
2335	82	**2414**	402	**2489**	238	**2579**	185	**2637**	100
2338	263	**2415**	410	**2490**	268	**2580**	362	**2638**	246

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2640	100	**2715**	281	**2780**	367	**2834**	299	**2962**	149
2642	44	**2716**	281	**2782**	368	**2835**	299	**2963**	318
2643	44	**2717**	38	**2784**	368	**2836**	299	**2965**	64
2644	44	**2718**	39	**2785**	368	**2837**	299	**2966**	148
2645	44	**2719**	58	**2786**	368	**2838**	300	**2967**	315
2646	44	**2721**	69	**2787**	368	**2839**	300	**2968**	225
2647	44	**2722**	76	**2788**	368	**2840**	300	**2969**	76
2652	44	**2723**	79	**2789**	368	**2841**	300	**2970**	461
2653	45	**2724**	79	**2790**	434	**2842**	300	**2972**	251
2654	45	**2725**	118	**2791**	70	**2843**	300	**2973**	39
2655	60	**2726**	421	**2792**	368	**2844**	300	**2974**	322
2656	60	**2727**	101	**2794**	371	**2845**	300	**2976**	142
2657	447	**2728**	112	**2795**	371	**2846**	300	**2978**	456
2658	225	**2729**	111	**2796**	371	**2847**	300	**2983**	435
2659	225	**2730**	116	**2798**	369	**2848**	300	**2984**	415
2660	225	**2732**	133	**2799**	369	**2849**	301	**2986**	365
2661	69	**2734**	136	**2801**	369	**2850**	301	**2987**	366
2663	74	**2735**	141	**2802**	369	**2851**	301	**2988**	61
2665	165	**2736**	141	**2803**	369	**2852**	301	**2989**	70
2666	165	**2738**	146	**2804**	369	**2853**	298	**2990**	70
2667	165	**2740**	151	**2805**	369	**2855**	299	**2991**	456
2668	165	**2741**	151	**2806**	369	**2856**	299	**2992**	275
2669	166	**2744**	176	**2807**	369	**2857**	299	**2995**	466
2670	166	**2745**	223	**2808**	370	**2865**	330	**2997**	432
2671	166	**2746**	224	**2809**	370	**2883**	330	**2998**	334
2672	166	**2747**	236	**2810**	370	**2890**	102	**3001**	33
2673	166	**2748**	231	**2811**	370	**2891**	102	**3008**	321
2680	164	**2749**	265	**2812**	370	**2892**	102	**3010**	439
2681	164	**2751**	310	**2813**	370	**2893**	102	**3011**	439
2683	164	**2753**	321	**2814**	370	**2894**	102	**3012**	440
2684	165	**2754**	321	**2815**	370	**2895**	102	**3013**	440
2685	166	**2755**	322	**2816**	370	**2896**	102	**3014**	442
2686	165	**2757**	327	**2817**	370	**2902**	106	**3015**	76
2687	165	**2758**	328	**2818**	371	**2909**	102	**3017**	77
2688	165	**2760**	356	**2819**	367	**2910**	258	**3018**	78
2692	423	**2761**	362	**2820**	367	**2911**	409	**3019**	78
2693	189	**2762**	383	**2821**	367	**2913**	111	**3020**	79
2699	189	**2763**	387	**2822**	367	**2926**	296	**3021**	376
2700	190	**2764**	389	**2823**	367	**2930**	433	**3024**	87
2701	190	**2766**	405	**2824**	367	**2933**	37	**3026**	87
2702	190	**2768**	420	**2825**	366	**2934**	94	**3028**	88
2703	190	**2770**	430	**2826**	366	**2935**	38	**3029**	88
2704	190	**2771**	430	**2827**	367	**2936**	394	**3030**	88
2709	281	**2772**	431	**2828**	367	**2937**	261	**3031**	88
2710	281	**2773**	431	**2829**	299	**2938**	432	**3032**	88
2711	281	**2774**	434	**2830**	299	**2939**	79	**3033**	89
2712	281	**2776**	445	**2831**	299	**2940**	354	**3034**	89
2713	281	**2777**	223	**2832**	299	**2947**	141	**3035**	89
2714	281	**2779**	368	**2833**	299	**2961**	237	**3037**	89

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3039	90	**3113**	162	**3176**	206	**3234**	297	**3289**	325
3040	116	**3114**	162	**3178**	206	**3235**	297	**3290**	325
3045	114	**3115**	163	**3180**	206	**3237**	297	**3291**	212
3046	114	**3117**	163	**3181**	206	**3238**	297	**3292**	351
3047	114	**3118**	163	**3182**	206	**3239**	297	**3294**	351
3048	115	**3119**	163	**3183**	208	**3240**	298	**3295**	352
3052	115	**3120**	163	**3184**	208	**3242**	298	**3296**	352
3053	115	**3121**	248	**3185**	208	**3243**	298	**3299**	353
3054	116	**3122**	164	**3187**	208	**3245**	301	**3300**	353
3055	117	**3124**	169	**3188**	209	**3246**	301	**3301**	353
3056	117	**3125**	170	**3190**	209	**3248**	302	**3302**	353
3057	118	**3126**	171	**3193**	210	**3249**	302	**3303**	353
3058	118	**3128**	171	**3194**	210	**3251**	302	**3305**	354
3064	135	**3129**	171	**3195**	210	**3252**	302	**3307**	361
3066	136	**3132**	176	**3196**	211	**3253**	303	**3309**	416
3067	137	**3134**	178	**3197**	211	**3254**	303	**3310**	416
3068	441	**3136**	178	**3198**	211	**3255**	303	**3311**	417
3069	138	**3137**	179	**3199**	211	**3256**	304	**3312**	417
3071	138	**3139**	179	**3200**	211	**3257**	304	**3313**	420
3072	138	**3140**	180	**3201**	212	**3258**	305	**3315**	422
3073	139	**3141**	180	**3202**	212	**3259**	305	**3316**	433
3074	139	**3144**	180	**3203**	212	**3260**	305	**3318**	433
3075	139	**3146**	180	**3204**	182	**3261**	309	**3319**	433
3076	139	**3147**	181	**3205**	224	**3262**	309	**3321**	433
3077	140	**3148**	181	**3206**	265	**3263**	309	**3323**	117
3078	140	**3149**	181	**3207**	267	**3264**	310	**3324**	434
3079	140	**3150**	182	**3208**	267	**3265**	310	**3325**	435
3080	140	**3151**	182	**3209**	268	**3266**	310	**3326**	435
3082	142	**3152**	183	**3210**	269	**3268**	311	**3327**	435
3085	145	**3153**	191	**3211**	269	**3269**	311	**3328**	435
3087	145	**3154**	200	**3212**	272	**3270**	312	**3329**	435
3088	146	**3155**	200	**3214**	272	**3271**	312	**3331**	436
3093	150	**3156**	200	**3215**	273	**3272**	312	**3332**	436
3094	150	**3157**	201	**3216**	274	**3273**	312	**3333**	436
3095	151	**3158**	201	**3217**	275	**3274**	312	**3335**	117
3096	151	**3160**	202	**3218**	275	**3275**	313	**3336**	436
3097	152	**3161**	202	**3219**	275	**3276**	313	**3337**	437
3098	154	**3162**	317	**3220**	276	**3277**	313	**3338**	437
3100	154	**3163**	202	**3222**	277	**3278**	313	**3340**	438
3101	156	**3164**	203	**3223**	277	**3279**	319	**3342**	439
3102	156	**3165**	203	**3225**	278	**3280**	320	**3343**	439
3104	157	**3166**	203	**3226**	279	**3281**	320	**3344**	439
3105	158	**3167**	204	**3227**	279	**3282**	320	**3345**	440
3106	158	**3168**	204	**3228**	280	**3283**	322	**3346**	440
3107	159	**3169**	204	**3229**	280	**3284**	323	**3347**	440
3108	159	**3170**	204	**3230**	392	**3285**	323	**3348**	441
3109	159	**3171**	204	**3231**	280	**3286**	323	**3349**	442
3110	159	**3173**	205	**3232**	280	**3287**	324	**3350**	442

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3353	442	**3411**	89	**3471**	255	**3525**	132	**3583**	365
3354	442	**3412**	180	**3472**	200	**3526**	169	**3584**	459
3356	443	**3414**	208	**3473**	394	**3527**	173	**3586**	214
3357	443	**3415**	309	**3474**	234	**3528**	185	**3587**	214
3358	443	**3416**	152	**3475**	467	**3529**	196	**3588**	214
3359	444	**3417**	208	**3476**	202	**3530**	214	**3589**	366
3360	443	**3418**	444	**3477**	173	**3531**	226	**3590**	418
3361	444	**3420**	81	**3478**	242	**3532**	242	**3592**	392
3362	444	**3421**	276	**3480**	463	**3533**	242	**3593**	393
3363	444	**3422**	304	**3481**	122	**3534**	254	**3594**	381
3364	445	**3423**	324	**3482**	139	**3535**	258	**3595**	379
3366	448	**3424**	201	**3483**	232	**3536**	289	**3596**	396
3367	449	**3425**	304	**3484**	64	**3537**	348	**3600**	260
3368	449	**3426**	211	**3485**	432	**3538**	351	**3602**	42
3369	450	**3427**	449	**3486**	138	**3539**	364	**3603**	42
3370	450	**3428**	448	**3488**	151	**3540**	365	**3604**	43
3371	310	**3429**	301	**3489**	411	**3541**	104	**3605**	43
3372	203	**3431**	145	**3490**	85	**3542**	376	**3607**	427
3373	147	**3432**	112	**3493**	457	**3543**	399	**3608**	428
3374	85	**3433**	137	**3494**	391	**3544**	402	**3610**	428
3375	85	**3434**	302	**3495**	84	**3545**	413	**3611**	130
3379	273	**3435**	39	**3496**	80	**3546**	425	**3612**	132
3380	117	**3437**	46	**3497**	182	**3547**	460	**3613**	132
3381	449	**3439**	140	**3498**	460	**3548**	460	**3614**	128
3382	328	**3440**	90	**3499**	329	**3549**	463	**3615**	128
3384	311	**3441**	135	**3500**	423	**3550**	467	**3617**	129
3385	147	**3442**	136	**3501**	328	**3551**	292	**3618**	128
3386	179	**3443**	137	**3502**	329	**3553**	52	**3620**	326
3388	305	**3446**	200	**3503**	329	**3556**	96	**3621**	94
3389	133	**3447**	210	**3504**	329	**3557**	110	**3623**	95
3390	160	**3448**	268	**3505**	329	**3558**	114	**3624**	124
3391	212	**3449**	276	**3506**	329	**3559**	131	**3625**	109
3392	212	**3450**	311	**3507**	329	**3561**	136	**3626**	109
3393	209	**3451**	441	**3508**	329	**3562**	142	**3627**	375
3394	205	**3452**	437	**3509**	329	**3563**	168	**3628**	375
3395	45	**3455**	209	**3510**	330	**3565**	234	**3629**	375
3396	310	**3456**	303	**3511**	330	**3566**	326	**3630**	375
3397	137	**3457**	139	**3512**	378	**3568**	231	**3631**	373
3398	276	**3459**	443	**3513**	185	**3569**	456	**3633**	400
3399	352	**3460**	164	**3514**	374	**3571**	336	**3634**	400
3400	320	**3461**	301	**3515**	285	**3572**	341	**3636**	400
3403	312	**3462**	443	**3516**	138	**3574**	385	**3637**	122
3404	302	**3463**	137	**3517**	431	**3575**	415	**3638**	290
3405	416	**3464**	181	**3519**	44	**3577**	184	**3639**	382
3406	417	**3465**	67	**3520**	57	**3578**	218	**3640**	333
3407	205	**3466**	152	**3521**	64	**3579**	241	**3641**	333
3408	115	**3467**	232	**3522**	99	**3580**	241	**3642**	345
3409	416	**3468**	372	**3523**	108	**3581**	365	**3643**	339

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3647	378	**3759**	118	**3836**	144	**3898**	271	**3956**	323
3648	393	**3760**	145	**3837**	145	**3899**	271	**3957**	323
3649	465	**3761**	190	**3838**	145	**3900**	271	**3958**	323
3650	380	**3762**	192	**3839**	149	**3901**	271	**3959**	352
3651	249	**3763**	231	**3840**	152	**3902**	272	**3960**	416
3655	188	**3764**	282	**3841**	153	**3903**	272	**3961**	416
3656	99	**3765**	293	**3842**	153	**3904**	272	**3962**	417
3657	255	**3766**	295	**3843**	153	**3905**	272	**3963**	417
3659	55	**3767**	306	**3844**	153	**3906**	272	**3964**	417
3660	47	**3768**	314	**3846**	154	**3907**	272	**3966**	433
3663	393	**3769**	325	**3847**	154	**3908**	273	**3967**	433
3665	130	**3770**	371	**3848**	154	**3909**	273	**3969**	445
3666	346	**3771**	406	**3849**	154	**3910**	184	**3970**	449
3667	346	**3772**	222	**3850**	171	**3911**	273	**3971**	449
3668	401	**3773**	222	**3851**	155	**3913**	273	**3972**	449
3669	396	**3775**	150	**3852**	159	**3914**	274	**3974**	194
3671	464	**3776**	426	**3853**	157	**3916**	274	**3975**	195
3672	250	**3777**	113	**3854**	160	**3917**	274	**3977**	196
3675	468	**3778**	113	**3856**	163	**3918**	274	**3979**	210
3676	56	**3779**	420	**3858**	163	**3919**	274	**3980**	213
3677	348	**3781**	333	**3860**	164	**3920**	274	**3981**	213
3679	400	**3783**	306	**3861**	164	**3922**	276	**3982**	213
3681	93	**3787**	91	**3862**	164	**3923**	276	**3984**	220
3683	96	**3788**	330	**3863**	176	**3925**	277	**3986**	232
3685	182	**3790**	220	**3864**	179	**3926**	277	**3988**	232
3718	42	**3791**	114	**3865**	179	**3927**	277	**3989**	233
3719	80	**3793**	124	**3866**	179	**3928**	278	**3990**	233
3720	115	**3794**	130	**3867**	180	**3929**	297	**3991**	233
3721	87	**3797**	148	**3871**	258	**3930**	297	**3992**	233
3722	92	**3798**	148	**3872**	258	**3931**	297	**3993**	234
3725	104	**3799**	149	**3875**	201	**3932**	298	**3994**	234
3726	106	**3805**	149	**3876**	203	**3933**	298	**3995**	234
3727	106	**3807**	85	**3877**	203	**3934**	298	**3997**	234
3740	108	**3808**	90	**3878**	203	**3935**	303	**3998**	234
3741	123	**3809**	90	**3879**	204	**3936**	303	**4071**	259
3742	70	**3810**	112	**3880**	205	**3937**	305	**4080**	296
3743	98	**3812**	167	**3884**	209	**3938**	305	**4083**	72
3744	207	**3815**	133	**3885**	209	**3942**	311	**4169**	436
3747	125	**3816**	133	**3886**	209	**3944**	313	**4406**	267
3748	347	**3817**	168	**3887**	182	**3946**	320	**4477**	141
3749	404	**3819**	136	**3889**	265	**3947**	320	**4490**	319
3750	142	**3823**	138	**3890**	267	**3948**	320	**4527**	237
3752	316	**3824**	138	**3891**	183	**3949**	321	**4559**	259
3753	33	**3825**	139	**3892**	270	**3950**	321	**4563**	170
3754	74	**3826**	140	**3893**	270	**3951**	321	**4580**	70
3755	75	**3828**	142	**3894**	271	**3952**	321	**4582**	422
3756	111	**3830**	169	**3895**	271	**3953**	322	**4583**	190

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4645	155	**5041**	260	**5091**	107	**5172**	412	**5257**	150
4658	269	**5042**	260	**5092**	129	**5173**	413	**5258**	191
4662	178	**5043**	262	**5093**	56	**5175**	425	**5259**	116
4737	79	**5044**	262	**5094**	308	**5177**	459	**5260**	150
4772	146	**5045**	262	**5095**	414	**5178**	461	**5261**	148
4809	202	**5046**	262	**5096**	360	**5179**	461	**5262**	143
4811	233	**5047**	243	**5097**	360	**5183**	463	**5264**	137
4829	146	**5048**	245	**5098**	403	**5184**	466	**5265**	116
4847	141	**5049**	53	**5099**	403	**5185**	269	**5267**	98
4856	286	**5050**	282	**5100**	451	**5188**	232	**5268**	49
4882	339	**5051**	291	**5101**	466	**5189**	235	**5269**	95
4912	88	**5052**	291	**5102**	467	**5190**	432	**5270**	96
5000	64	**5053**	292	**5103**	54	**5191**	291	**5271**	99
5003	48	**5054**	293	**5104**	345	**5192**	39	**5272**	129
5004	42	**5055**	307	**5107**	393	**5193**	43	**5274**	255
5005	306	**5056**	308	**5108**	465	**5194**	136	**5275**	335
5006	42	**5057**	56	**5109**	56	**5195**	239	**5276**	346
5007	43	**5058**	143	**5110**	50	**5196**	115	**5277**	393
5008	58	**5059**	328	**5116**	41	**5197**	304	**5278**	395
5009	59	**5060**	56	**5117**	244	**5198**	468	**5279**	396
5010	59	**5061**	50	**5127**	53	**5199**	178	**5280**	403
5011	56	**5062**	141	**5134**	239	**5200**	116	**5281**	465
5012	61	**5063**	116	**5135**	240	**5201**	76	**5282**	465
5013	61	**5065**	339	**5136**	240	**5202**	454	**5283**	80
5014	62	**5066**	358	**5139**	241	**5203**	68	**5284**	147
5015	63	**5067**	50	**5140**	242	**5204**	68	**5285**	387
5016	95	**5068**	342	**5141**	242	**5215**	191	**5287**	162
5017	94	**5069**	50	**5142**	245	**5217**	375	**5288**	46
5018	109	**5070**	389	**5143**	253	**5223**	438	**5289**	235
5019	109	**5071**	411	**5144**	253	**5224**	279	**5290**	87
5021	119	**5072**	49	**5145**	253	**5225**	233	**5291**	237
5022	119	**5073**	427	**5147**	414	**5226**	233	**5292**	237
5023	49	**5074**	50	**5150**	287	**5227**	233	**5293**	147
5024	121	**5075**	54	**5151**	287	**5228**	170	**5294**	441
5025	126	**5076**	448	**5153**	288	**5229**	201	**5296**	361
5026	131	**5077**	451	**5154**	291	**5231**	431	**5297**	120
5027	132	**5078**	52	**5155**	292	**5233**	322	**5298**	327
5028	132	**5079**	464	**5157**	349	**5237**	308	**5299**	134
5030	186	**5080**	468	**5159**	363	**5238**	308	**5300**	113
5031	186	**5081**	468	**5161**	364	**5239**	322	**5302**	148
5032	199	**5082**	205	**5162**	364	**5240**	76	**5303**	202
5033	232	**5083**	220	**5163**	365	**5244**	86	**5304**	336
5034	247	**5084**	344	**5164**	365	**5248**	149	**5307**	37
5035	247	**5085**	50	**5165**	365	**5249**	347	**5310**	80
5036	247	**5086**	373	**5166**	365	**5252**	77	**5311**	112
5037	255	**5087**	373	**5168**	404	**5253**	440	**5312**	354
5038	256	**5088**	375	**5169**	412	**5254**	154	**5313**	434

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5317	291	**5440**	283	**5538**	155	**5635**	452	**8309**	228
5318	76	**5442**	306	**5542**	85	**5636**	439	**8310**	228
5319	136	**5443**	307	**5543**	114	**5637**	443	**8311**	228
5322	455	**5444**	308	**5546**	179	**5638**	38	**8312**	228
5324	418	**5448**	332	**5548**	205	**5639**	401	**8313**	229
5325	43	**5453**	326	**5551**	85	**5640**	381	**8314**	229
5328	207	**5454**	198	**5552**	144	**5643**	103	**8315**	229
5329	181	**5457**	384	**5553**	170	**5644**	103	**8316**	229
5331	183	**5458**	385	**5560**	75	**5645**	103	**8322**	228
5332	183	**5459**	390	**5561**	237	**5646**	103	**8340**	230
5333	183	**5460**	391	**5562**	35	**5648**	209	**8348**	337
5334	441	**5461**	402	**5563**	36	**5653**	220	**8350**	337
5335	441	**5463**	410	**5564**	133	**5654**	120	**8368**	337
5343	78	**5465**	434	**5565**	144	**5655**	135	**8369**	337
5344	115	**5468**	434	**5566**	175	**5657**	304	**8372**	337
5351	265	**5469**	436	**5567**	201	**5658**	414	**8378**	230
5354	352	**5471**	437	**5568**	207	**5659**	122	**8379**	230
5355	53	**5474**	458	**5569**	237	**5660**	55	**8380**	230
5357	415	**5475**	458	**5570**	266	**5666**	396	**8381**	230
5359	316	**5477**	458	**5572**	270	**5667**	115	**8384**	335
5364	439	**5478**	68	**5573**	268	**5910**	197	**8385**	337
5365	122	**5481**	178	**5574**	309	**5911**	197	**8414**	226
5366	240	**5485**	222	**5575**	317	**5912**	198	**8416**	226
5367	205	**5486**	394	**5576**	419	**5913**	198	**8442**	230
5369	105	**5491**	123	**5577**	429	**6121**	251	**8443**	230
5372	46	**5492**	403	**5578**	438	**6198**	101	**8444**	229
5376	383	**5494**	135	**5579**	36	**6451**	48	**8445**	229
5378	181	**5497**	180	**5583**	334	**6581**	389	**8446**	229
5382	446	**5499**	179	**5584**	374	**6601**	315	**8473**	230
5384	361	**5501**	87	**5586**	219	**6661**	131	**8475**	452
5388	68	**5502**	78	**5588**	321	**6861**	126	**8476**	226
5389	68	**5506**	154	**5589**	89	**6862**	126	**8587**	226
5393	86	**5508**	151	**5592**	201	**6961**	283	**8591**	64
5397	136	**5510**	313	**5594**	444	**7050**	380	**8658**	229
5400	142	**5513**	451	**5596**	263	**7081**	423	**9004**	345
5403	146	**5514**	188	**5597**	318	**7171**	100	**9005**	408
5405	146	**5515**	178	**5600**	291	**7198**	101	**9021**	129
5407	146	**5517**	305	**5603**	392	**7402**	316	**9030**	132
5409	150	**5518**	66	**5604**	59	**7683**	103	**9031**	428
5411	175	**5520**	396	**5605**	454	**8198**	101	**9032**	429
5412	175	**5522**	156	**5606**	261	**8297**	372	**9033**	124
5414	85	**5524**	396	**5609**	387	**8301**	226	**9053**	434
5415	193	**5525**	468	**5612**	177	**8302**	227	**9055**	341
5427	258	**5526**	170	**5613**	452	**8303**	227	**9064**	377
5429	264	**5528**	221	**5614**	452	**8304**	227	**9143**	238
5430	265	**5529**	45	**5615**	452	**8305**	227	**9149**	334
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Common Acids and Bases

Name	Formula	Mol. Wt.	Conc. of Reagent	Reagent Molarity	Specific Gravity
Acetic acid	CH_3COOH	60.05	99.8%	17.4	1.05
Formic acid	HCOOH	46.03	90.0%	23.6	1.2
Hydrochloric acid	HCl	36.46	37.2%	12.1	1.18
Hydrofluoric acid	HF	20.01	49.0%	8.9	1.16
Hydriodic acid	HI	127.91	47.0%	5.5	1.50
Nitric acid	HNO_3	63.01	69.6%	15.6	1.41
Perchloric acid	$HClO_4$	100.46	70.5%	11.7	1.66
Phosphoric acid	H_3PO_4	98.00	85.5%	14.8	1.69
Sulfuric acid	H_2SO_4	98.08	96.0%	18.0	1.84
Ammonium hydroxide	NH_4OH	35.05	28 wt.% NH_3 (or 56.6% NH_4OH)	14.5	0.90
Sodium hydroxide	NaOH	40.00	50.0%	19.4	1.52
Potassium hydroxide	KOH	56.11	45.0%	11.7	1.45

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Dessicants for Drying Air and Gases[a]

Desiccant	Residual Water,ug/Liter air[b]			Regeneration	Non-Suitable Gases (typical)
	Ref.1[c]	Ref 2[d]	Ref. 3[e]		
Cold trap at -190°C			1.6×10^{-20}		
Magnesium perchlorate					
$Mg(ClO_4)_2 \cdot 0.12H_2O$	0.2			245°C, vac.[f]	Most organics
$Mg(ClO_4)_2 \cdot 1.5H_2O$	1.5	2	>0.5	f	Most organics
$Mg(ClO_4)_2 \cdot 3H_2O$		30	>2	f	Most organics
Alumina, Al_2O_3	3	5	3	175°C	HCl, SO_3
Barium Oxide, BaO	3	0.7	<0.1	900°C	HCl, SO_3, SO_2, CO_2
Phosphorous pentoxide	4		<0.02		NH_3
Molecular Sieve 5A	4			250°	
Lithium perchlorate	13				Most organics
Calcium chloride					
$CaCl_2$	138	360	360	245°C, vac.	NH_3
$CaCl_2 \cdot 0.18H_2O$	67			127°C,vac	NH_3
Granular		1500	140-250		NH_3
Calcium Sulfate					
$CaSO_4$		5	4	165°	
$CaSO_4 \cdot 0.02H_2O$	67				
$CaSO_4 \cdot 0.18H_2O$	67				
$CaSO_4 \cdot 0.21H_2O$	207				
Silica Gel	70	30		200 - 350°	
Ascarite (91% NaOH)	93				HCl, SO_3, SO_2, CO_2
Sodium hydroxide					
$NaOH \cdot 0.03\ H_2O$	513		160		HCl, SO_3, SO_2, CO_2
Barium perchlorate	513	820		140 - 400°C[f]	Most organics
Calcium oxide	656	3	200	900°C	HCl, SO_3, SO_2, CO_2
Magnesium oxide	939		8	800°C	HCl, SO_3, SO_2, CO_2
Copper sulfate		2800	1400	250°C	NH_3

[a] For use in desiccators and absorption traps to remove moisture from air and gases as well as from non-volatile materials (indirectly - not by direct contact with them) or to protect dry materials from picking up moisture.

[b] Results depend on method used, equilibrium time and temperature, and condition of desiccant.

[c] At 25°C and 200 - 230 ml/min flow rate of air. Reference 1: F. Trussell and H. Diehl, Anal Chem., 35,674 (1963).

[d] At 30.5°C and 60 - 300 ml/min flow rate of air. Reference 2: J. H. Bower,J. Research Natl. Bur. Standards. 12,241 (1934).

[e] Reference 3:International Critical Tables, Vol. III, p. 385.

[f] Regeneration not recommended if organic matter has been absorbed because of risk of fire or explosion.

Dessicants for Drying Liquids by Direct Contact

Desiccant	Residual Water Content (ppm) after Static Drying[1]							
	Benzene[2]	Pyridine[3]	Acetone[4]	Acetonitrile[5]	Dioxane[6]	DMF[7]	DMSO[8]	Et_3N[9]
Molecular Sieve 3A		117	152	49		167	448	34
Molecular Sieve 4A	0.03	106 (0.3)[a]	887	450	40	134	471	33 (28)[a]
CaH_2		39 (14)[b]		1900	30	227		68 (34)[b]
P_2O_5	12			9	400	105		
BaO		101	1870			1520	1330	89 (53)[b]
CaC_2		44 (10)[b]						98 (80)[b]
Al_2O_3	0.006	1306		1600	1700		1900	223 (223)[b]
Na	2	388			20			83
KOH (powdered)		152		2200	150	1110		37 (23)[b]
Silica Gel	0.3	926		1300	1300			451
$CaSO_4$			1600	2500	1600	2030		
$CaCl_2$	0.1			1200	300			
$LiAlH_4$	0.03				900			
K_2CO_3				250				
Na_2SO_4	>28				1900			

[1]Desiccant loading 5% w/v; initial water content 0.01 - 0.30% w/w, depending on organic liquid tested (see proper footnote); equilibration time 24 hours.

[2] Initial water 100 ppm. Reference: D.R.Burfield, K.H. Lee, and R.H. Smithers, J.Org. Chem., 42, 3060 (1977).

[3] Initial water 2500 ppm. Reference: D.R. Burfield, R.H. Smithers, and A.S.C. Tan, J.Org. Chem., 46, 629 (1981).

[4] Initial water 2890 ppm. Reference: D.R. Burfield and R.H. Smithers, J. Org. Chem., 43, 3966 (1978).

[5] initial water 2800 ppm. Reference: same as in footnote 2.

[6] Initial water 2300 ppm. Reference: same as in footnote 2.

[7] DMF = Dimethylformamide. Initial water content 2860 ppm. Reference: same as in footnote 4.

[8] DMSO = Dimethylsulfoxide. Initial water content 2560 ppm. Reference: same as footnote 4.

[9] Et_3N = Triethylamine. Initial water content 2500 ppm. Reference: same as in footnote 3.

[a] Sequentially dried sample, 24 hours.

[b] 168-hour drying time

Dehydrating Agents. The effectiveness of a drying agent is measured by the amount of water vapor left in a gas after passage through the drying agent. Recent experimental work has indicated that the water left in nitrogen gas dried over anhydrous magnesium perchlorate amounts to 0.2 ug per liter (ug = microgram, 0.000001 g .) This is lower by a factor of ten than the figures for the next best desiccants. Anhydrous magnesium perchlorate is far superior to other drying agents with respect to capacity too, for it will absorb water up to fifty per cent of its own weight. It remains free-flowing during the absorption of water and thus its efficiency is not impaired by surface coating or restricted gas flow. These properties make anhydrous magnesium perchlorate the superior drying agent for absorption vessels, and for the charging of gas purification trains and desiccators where a desiccant of maximum efficiency is required. Anhydrous magnesium perchlorate absorbs ammonia quantitatively as well as water. It also absorbs alcohols and certain unsaturated hydrocarbons. Anhydrous magnesium perchlorate should not be used to dry organic liquids.

Particle Size and Wire Diameter Conversion Tables

Mesh conversions relate the number of sieve openings per unit area to nominal particle size. Approximations are used in order to accommodate the irregular shape of most solid particles. Typically >90% of particles will lie within a designated mesh range. A minus sign before the sieve mesh means the particles pass through the sieve; a plus sign before the sieve mesh means the particles are retained by the sieve. Convention does not require that both a minus and a plus sign be used to characterize a product.

Nominal Particle Size				Nominal Wire Diameter	
MESH	MICRONS	MM	INCH	INCHES	MILLIMETERS
4	4760	4.76	0.186	0.140	3.55
6	3350	3.36	0.132	0.124	3.15
8	2380	2.38	0.0937	0.110	2.80
10	2000	2.00	0.0787	0.098	2.50
				0.088	2.24
12	1680	1.68	0.0660	0.079	2.00
14	1410	1.41	0.0555	0.070	1.80
16	1190	1.19	0.0469	0.063	1.60
18	1000	1.00	0.0394	0.055	1.40
				0.049	1.25
20	840	0.840	0.0330	0.044	1.12
25	707	0.707	0.0278	0.039	1.00
30	595	0.595	0.0233	0.035	0.900
35	500	0.500	0.0197	0.031	0.800
				0.028	0.710
40	420	0.420	0.0165	0.025	0.630
45	354	0.354	0.0139	0.022	0.560
50	297	0.297	0.0117	0.020	0.500
60	250	0.250	0.0097	0.018	0.450
				0.016	0.400
70	210	0.210	0.0083	0.012	0.315
80	177	0.177	0.0070	0.011	0.280
90	160	0.160	0.0064	0.010	0.250
100	149	0.149	0.0059	0.0094	0.224
				0.0078	0.200
120	125	0.125	0.0049	0.0060	0.160
140	105	0.105	0.0041	0.0055	0.140
170	88	0.088	0.0035	0.0050	0.125
200	74	0.074	0.0029	0.0039	0.100
				0.0035	0.090
230	63	0.063	0.0025	0.0028	0.071
270	53	0.053	0.0021	0.0024	0.063
325	44	0.044	0.0017	0.0020	0.050
400	37	0.037	0.0015	0.0018	0.045
				0.0016	0.040
625	20	0.020	0.0008	0.0014	0.036
1250	10	0.010	0.0004	0.0013	0.032
2500	5	0.005	0.0002	0.0011	0.030

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Perchloric Acid and Perchlorates, Alfred A. Schilt, $119.50 (paperback only), #496
This 300 page volume includes two chapters on perchlorate toxicology and regulation contributed by Dr. Gay Goodman and Dr. Richard Pleus, Intertox, Inc., experts in the respective fields who defend the character of perchlorate in issues of environmental impact.

Moisture Measurement by Karl Fischer Titrimetry, Alfred A. Schilt, $40.60, #501
The text has been revised to address recent developments in product formulation and alternative methodology.

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- **Practical Use of Anhydrous $LiClO_4$ and $Mg(ClO_4)_2$ in Organic Synthesis, #495**

- **Reactions Promoted by Anhydrous Cerous Chloride**

#211 Acid-Base Titrations in Nonaqueous Solvents, James S. Fritz, 1952. #99805

#209 Analytical Applications of Periodic Acid and Their Salts, G. F. Smith, 5th Ed. 1950. #99810

#199 Calcein, Calmagite, and o,o- Dihydroxyazobenzene. Titrimetric, Colorimetric, and Fluorometric Reagents for Calcium and Magnesium, Harvey Diehl, 1963. #99815.

#204 Cerate Oxidimetry,
G. Frederick Smith, 2nd Edition, 1964. #99820

#217 The Copper Reagents, Cuproine, Neocuproine, Bathocuproine, Harvey Diehl, G. Frederick Smith, A. A. Schilt, L. C. McBride, 2nd Edition, 1972. #99825

#200 Dehydration Studies Using Anhydrous Magnesium Perchlorate, G. F. Smith, 1951. #99830

#216 The Dualistic and Versatile Reaction Properties of Perchloric Acid and Colorimetric Determination of Iron in Raw and Treated Municipal Water Supplies, G. Frederick Smith, W. H. McCurdy, Harvey Diehl, 1955. #99840

#218 The Iron Reagents, 3rd Edition, 1980. #99845

#205 Phenanthroline and Substituted Phenanthroline Indicators, G. Frederick Smith and F. P. Richter, 1944. #99860

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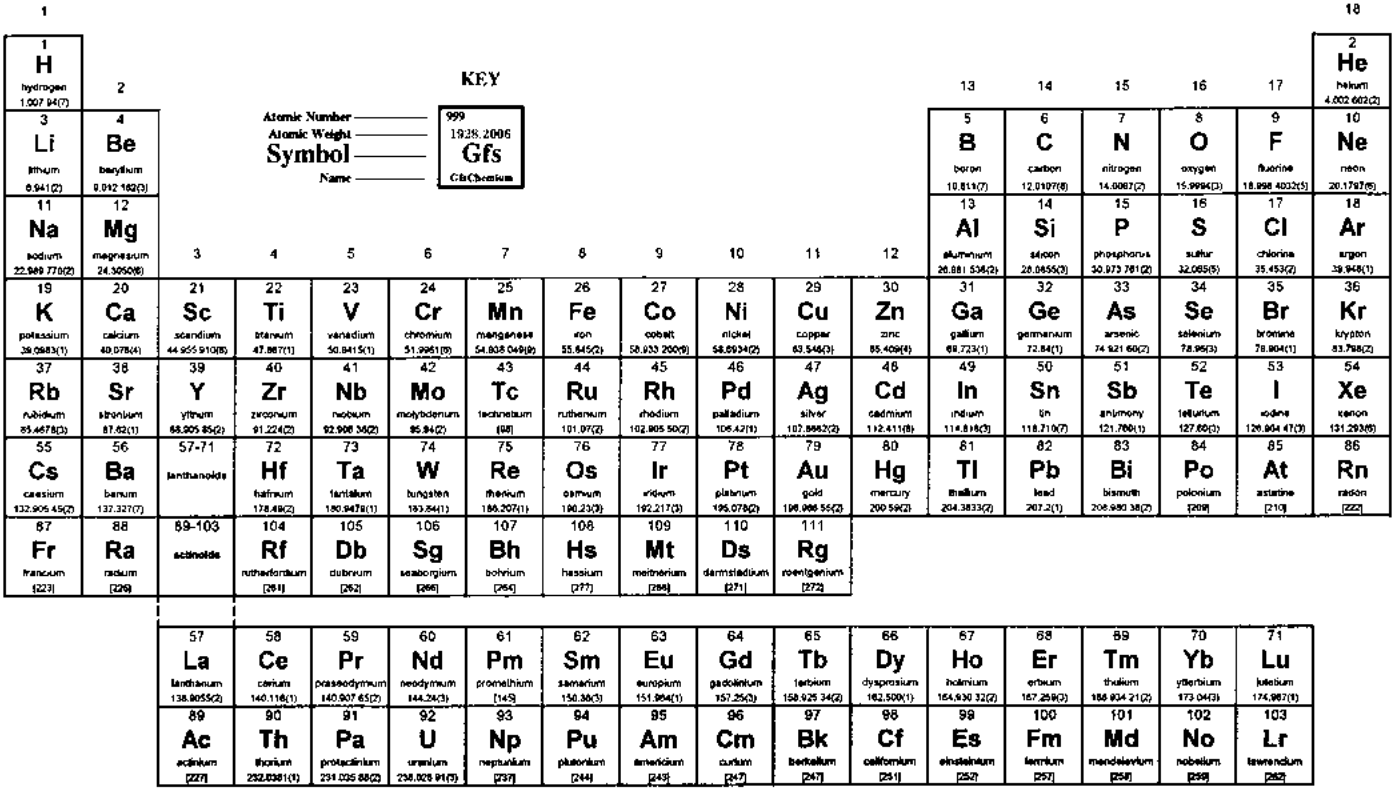
G. Frederick Smith, 1965. #99875

#501 Moisture Measurement by Karl Fischer Titrimetry, 2nd Ed., A.A. Schilt, 2003. $35.00. #99879

#494 Reprint – Ch. 2, Perchlorate in the Environment (E. Urbansky, Ed.), "...Realizing the Benefits"

#493 Reprint – Perchlorates in Organic Media, John R. Long, G.I.T. Lab. Journal, 2000, 4, 222.

Periodic Table of the Elements



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