

Product Specification

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SULPHURIC ACID ULTRA PURE

PRODUCT CODE	**894939**
SYNONYMS	**Hydrogen sulfate; Oil of vitriol; Vitriol brown oil; Mattling acid; Battery Acid**
C.I. NO.	**N/A**
CASR NO.	**7664-93-9**
ATOMIC OR MOLECULAR FORMULA	**H_2SO_4**
ATOMIC OR MOLECULAR WEIGHT	**98.08**
PROPERTIES	**--**

H_2SO_4

PARAMETER	LIMIT
Description	A clear oily liquid, not more than 10 hazen unit in colour
Solubility	Miscible with water with the generation of a considerable amount of heat.
Assay (acidimetric)	95.0 - 97.0% w/w
MAXIMUM LIMIT OF IMPURITIES	
Chloride (Cl)	0.7 ppm
Nitrate (NO_3)	0.2 ppm
Substance reducing $KMnO_4$ (as O)	20 ppm
Total Phosphorus	0.05 ppm
Aluminium (Al)	1 ppb
Antimony (Sb)	1 ppb
Arsenic (As)	0.5 ppb
Barium (Ba)	0.1 ppb
Beryllium (Be)	0.1 ppb
Bismuth (Bi)	0.1 ppb
Cadmium (Cd)	0.5 ppb
Calcium (Ca)	1 ppb
Cerium (Ce)	0.1 ppb
Cesium (Cs)	0.1 ppb
Chromium (Cr)	0.5 ppb
Cobalt (Co)	0.5 ppb
Copper (Cu)	0.5 ppb
Dysprosium (Dy)	0.1 ppb
Erbium (Er)	0.1 ppb
Europium (Eu)	0.1 ppb
Gadolinium (Gd)	0.1 ppb
Gallium (Ga)	0.1 ppb
Germanium (Ge)	1 ppb
Gold (Au)	0.5 ppb
Hafnium (Hf)	0.1 ppb
Holmium (Ho)	0.1 ppb
Indium (In)	0.1 ppb
Iron (Fe)	1 ppb



Lanthanum (La)	0.1 ppb
Lead (Pb)	0.1 ppb
Lithium (Li)	0.5 ppb
Lutetium (Lu)	0.1 ppb
Magnesium (Mg)	1 ppb
Manganese (Mn)	0.5 ppb
Mercury (Hg)	0.1 ppb
Molybdenum (Mo)	0.5 ppb
Neodymium (Nd)	0.1 ppb
Nickel (Ni)	0.5 ppb
Niobium (Nb)	0.1 ppb
Palladium (Pd)	0.5 ppb
Platinum (Pt)	0.5 ppb
Potassium (K)	1 ppb
Praseodymium (Pr)	0.1 ppb
Rhenium (Re)	0.1 ppb
Rhodium (Rh)	0.5 ppb
Rubidium (Rb)	0.5 ppb
Ruthenium (Ru)	0.5 ppb
Samarium (Sm)	0.1 ppb
Scandium (Sc)	0.1 ppb
Selenium (Se)	10 ppb
Silver (Ag)	1 ppb
Sodium (Na)	1 ppb
Strontium (Sr)	0.3 ppb
Tantalum (Ta)	0.1 ppb
Tellurium (Te)	0.1 ppb
Terbium (Tb)	0.1 ppb
Thallium (Tl)	0.1 ppb
Thulium (Tm)	0.1 ppb
Tin (Sn)	1 ppb
Titanium (Ti)	1 ppb
Tungsten (W)	0.5 ppb
Vanadium (V)	0.5 ppb
Ytterbium (Yb)	0.1 ppb
Yttrium (Y)	0.1 ppb
Zinc (Zn)	1 ppb
Zirconium (Zr)	0.5 ppb

Note(s) : Assay (if applicable) method mentioned.

WARNING **Hazard statements :** Causes skin irritation. Causes serious eye irritation. May be corrosive to metals **Precautionary statements** **Prevention:** Keep only in original container. Wash thoroughly after handling .Wear protective gloves/protective	IMDG Code : 8/II UN No. : 1830 IATA : 8

clothing/eye protection/face protection. **Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing .If eye irritation persists: Get medical advice/attention .Absorb spillage to prevent material damage.	
Disposal: Add in small quantities to large, stirred excess of water, keeping the final concentration less than 2% Neutralize with 5% sodium hydroxide soln. and run to waste with large volumes of running water.	
Hazard Pictogram(s) :  GHS05	