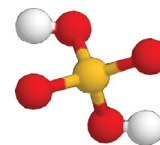


Sulfuric Acid

Introduction

CAS No.: 7664-93-9
EINEC No.: 203-615-4Formula: H_2SO_4
Molecular Weight: 98.00

Synonyms: Oil of vitriol; hydrogen sulfate



Sulfuric acid is a powerful, virtually irreplaceable constituent of countless industrial processes. It is used in the manufacture of products such as fertilizers, paints & pigments, explosives, pulp & paper, plastics, detergents, textiles, batteries and a variety of specialty chemicals. It is also used for processing mineral ores, metal refining, petrochemical processing and water treatment.

Properties

Aspect	Specification	Units	Test-Method
Appearance	Clear to slightly turbid oily liquid		SA048
Total Acidity	>98.0	%	SA017
Iron	<25	ppm	SA020
Oxidizable Matter (mls 0.02N $KMnO_4$ per 25 ml sample)	<4	ml	SA025
Chlorides	<5	ppm	SA046
Sulfur Dioxide	<40	ppm	SA021
Nitrogen Oxides, as NO	<25	ppm	SA030

Cytec also produces high quality commercial and electrolytic grade non-fuming sulfuric acid in strengths of 93% and 96%, as well as 20% oleum (104.5%).

Handling and Safety

Packaging:	Delivery in bulk (tank car or tank truck) Barge (Mississippi River mile marker 114.5)
Storage:	Dedicated storage tank. Use a closed system process where feasible. Separate from combustible substances, oxidants and reducing agents.
Transport classification:	UN1830 (UN1831 Oleum)
Tariff-No.:	2807 000000
Safety recommendations:	Direct contact with skin or eyes rapidly causes severe corrosive burns. Avoid breathing acid mist or vapor. Sulfuric acid has a strong affinity for water and will react violently and generate heat when coming in contact with organic materials or water. Please refer to our Material Safety Data Sheet for additional information.

