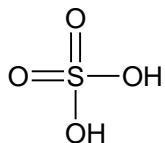


Sulfuric acid 98%

Bulk Chemicals and Intermediates | Technical Data Sheet

Synonyms

Hydrogen sulfate; Oil of vitriol



Molecular formula	H ₂ O ₄ S
Molecular weight	98.0
CAS number	7664-93-9
EINECS number	231-639-5

Specifications

Appearance	Colourless liquid
Assay	98% w/w minimum
Residue on ignition	0.2% w/w maximum
Fe content	0.05% w/w maximum
Pb content	0.005% w/w maximum

Physical properties

Boiling point	335°C
Melting point	-64°C (98% purity)
Specific gravity	1.84 at 20°C
Vapour density	3.4 (air-1)

Description

Sulfuric acid is a highly corrosive and colourless liquid. It is soluble in water with liberating heat.

Applications

Intermediate for chemicals and dyes

Packaging

Sulfuric acid is available in tankers.

Storage and handling

Store in a tightly closed container. Keep in a cool, dry and well-ventilated area. Never add water to this product. It is hygroscopic and reacts violently with water. Do not ingest or breathe gas | fumes | vapours | spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, get immediate medical advice. Avoid contact with skin and eyes. Keep away from incompatible materials such as oxidising agents, reducing agents, combustible materials, organic materials, metals, acids, alkalis and moisture. This product may corrode metallic surfaces. Always refer to the Safety Data Sheet (SDS) for detailed information on storage and handling.

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Safety

Wear personal protective equipment (PPE) such as safety glasses or chemical goggles, full body suit, vapour respirator, safety shoes, gloves etc. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient. Consult a specialist before handling this product. Always refer to the SDS for detailed information on safety.

First aid

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get immediate medical aid.

Skin contact: Immediately wash skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash them properly before reuse. Apply an emollient to irritated skin. Cold water may be used. Get immediate medical aid.

Ingestion: Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as collar, tie, belt or waistband. Get immediate medical aid if symptoms appear.

Inhalation: Shift the person to fresh air. If the person is not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical aid.

Spills and disposal

Sulfuric acid is a corrosive and toxic liquid. Stop leakage, if without risk. Absorb spilled material with dry sand or another non-combustible material(s). Do not touch spilled material. Use a water spray curtain to divert vapour drift and reduce vapours. Neutralise the area with a diluted solution of sodium carbonate. Prevent entry into sewers, basements or confined areas; dike if needed. Waste must be disposed of in accordance with federal, state or local regulations, as applicable.

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