Specification Sheet

339741 Sigma-Aldrich

Sulfuric acid

99.999%

- **CAS Number** 7664-93-9
- **Linear Formula** H_2SO_4
- **Molecular Weight** 98.08
- **Beilstein/REAXYS Number** 2037554
- **EC Number** 231-639-5
- **MDL number** MFCD00064589
- **PubChem Substance ID** 24860672
- **NACRES** NA.22

SKU-Pack Size	Availability	Pack Size	Price (SGD)	Quantity
339741-100ML	Available to ship on 12.04.2021 - FROM	100 mL	111.44	0
339741-500ML	Available to ship on 12.04.2021 - FROM	500 mL	363.68	0
339741-2.5L	Estimated to ship on 28.06.2021 - FROM	2.5 L	991.23	0

Properties

Related Categories	Acids, Acids & Bases, Chemical Synthesis, Chemicals for the synthesis of candidate COVID-19 treatments, Electronic Chemicals,
Quality Level	200
vapor density	**<0.3 (25 °C, vs air)**

vapor pressure	**1 mmHg (146 °C)**
description	**Nominally 95-98% H_2SO_4**
assay	**99.999%**
form	**viscous liquid**
color	**clear**
pH	**1.2 (5 g/L)**
bp	**~290 °C (lit.)**
density	**1.840 g/mL at 25 °C (lit.)**
storage temp.	**room temp**
SMILES string	**OS(O)(=O)=O**
InChI	**1S/H2O4S/c1-5(2,3)4/h(H2,1,2,3,4)**
InChI key	**QAOWNCQODCNURD-UHFFFAOYSA-N**

Description

General description

Sulphuric acid may be prepared by catalytic oxidation of sulphur dioxide. It is a very strong electrolyte and has high affinity to water.[4]

Application

Sulfuric acid can be used as a dehydrating agent, catalyst, and active reactant in the chemical industry[5][6]. It is also used to prepare silica-sulfuric acid composite, which is used as a catalyst in organic synthesis.[7]

Packaging

100, 500 mL in glass bottle

Analysis Note

Purity based on trace metals

Safety Information

Symbol

GHS05

Signal word

Danger

Hazard statements

H290 - H314

Precautionary statements

P280 - P303 + P361 + P353 - P305 + P351 + P338 + P310