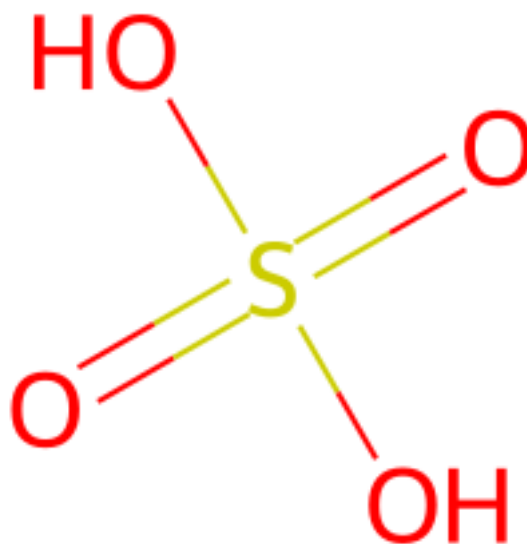


SULFURIC ACID

Formula	H ₂ O ₄ S
Mol. wt.	97.9674 g/mol
InChIKey	QAOWNCQODCNURD-UHFFFAOYSA-N

1. MOLECULAR STRUCTURE 2D



2. HAZARD IDENTIFICATION (GHS)

Signal word: DANGER

Hazard pictograms:



Corrosive

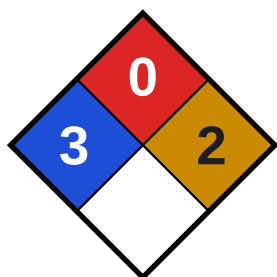
Hazard statements (H)

- H370: Causes damage to organs [Danger Specific target organ toxicity, single exposure]

Precautionary statements (P)

- P273, P391, and P501

3. NFPA 704 SYSTEM



Quadrant	Value	Description
Health (blue)	3	Hazardous short
Flammability (red)	0	Will not burn
Reactivity (yellow)	2	Violent chemical change

NFPA 704 scale: 0 = no hazard | 1 = slight | 2 = moderate | 3 = serious | 4 = severe

4. ACUTE TOXICITY

LD50 data not available.

5. RELEVANT PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	Unit	Source
Boiling point	554 °F at 760 mmHg (EPA, 1998)	—	pubchem_pugview
Density	1.841 (EPA, 1998) - Denser than water; will sink	—	pubchem_pugview
Melting point	50.65 °F (EPA, 1998)	—	pubchem_pugview
Vapor pressure	1 mmHg at 294.8 °F (EPA, 1998)	—	pubchem_pugview
Water solubility	Miscible (NIOSH, 2024)	—	pubchem_pugview

IMPORTANT LEGAL DISCLAIMER

This document is an INFORMATIONAL SAFETY PROPERTIES SUMMARY automatically generated from PubChem data (National Institutes of Health, USA). It is NOT an official Safety Data Sheet (SDS) and does not comply with GHS, OSHA HazCom, REACH (EU), or any equivalent national regulation. It must NOT be used as the sole reference document in industrial settings, professional laboratories, or for occupational risk assessment. Always consult the official SDS from the compound supplier and applicable local regulations before handling.

Official SDS sources:

- Sigma-Aldrich (Merck): [https://www.sigmaaldrich.com/search#q=sulfuric acid](https://www.sigmaaldrich.com/search#q=sulfuric+acid)
- Fisher Scientific: [https://www.fishersci.com/us/en/catalog/search/sds?query=sulfuric acid](https://www.fishersci.com/us/en/catalog/search/sds?query=sulfuric+acid)
- PubChem (source data): [https://pubchem.ncbi.nlm.nih.gov/#query=sulfuric acid](https://pubchem.ncbi.nlm.nih.gov/#query=sulfuric+acid)
- GESTIS (database): <https://gestis-database.dguv.de/>

Generated by ChemAtlas - chematlas.app - 2026-10-22