

## Sulfuric Acid 98%

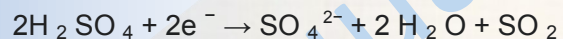


sulfuric acid or vitriol or sulfuric acid or sulfuric acid with the chemical formula  $H_2SO_4$  is a strong mineral acid, soluble in water in all concentrations, and it is one of the first acids known in ancient history. Where the Arabs knew it since the eighth century AD, and Europe knew it in the fourth and fifteenth centuries. And it was called vitriol oil by the Arab chemist Jabir bin Hayyan, who attended it and credits him for its discovery in the eighth century AD.

The sulfonation reaction is the most famous of the reactions that take place with it.

### Chemical properties

The chemical properties of sulfuric acid vary according to the concentration. Expanded sulfuric acid reacts directly with metals before hydrogen in the (electrochemical chain) giving metal sulfate and releasing hydrogen. As for metals after hydrogen, such as copper and silver, it does not interact with them except in the presence of a strong oxidizer such as nitric acid, and it never interacts with gold and platinum. Concentrated sulfuric acid reacts with all metals located before and after hydrogen in the periodic table, giving the metal sulfate, sulfur dioxide and water. It also reacts with non-metals to give sulfur dioxide, non-metal oxide and water. The reason for this is that hot, concentrated sulfuric acid has oxidizing properties as it receives electrons from the reducing element (the reference) in an oxidation-reduction reaction in the form:



The uses of sulfuric acid can be summarized as follows:

- As an oxidizing agent and a dehydrator.
- Production of chemical fertilizers.
- Soap and rubber industry.
- Production of dyes, alcohols and plastics.
- Iron, copper and detergent industries.
- Car battery industry.



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### Other names

Sulfuric acid  
vitriol oil

### Technical Information

<b>Molecular formula</b>	H <sub>2</sub> SO <sub>4</sub> _ _ _
<b>molar mass</b>	98.08 g/mol
<b>The appearance</b>	colorless liquid
<b>density</b>	1.84 g/cm <sup>3</sup>
<b>melting point</b>	10.38 °C
<b>boiling point</b>	279.6 °C
<b>Solubility in water</b>	Mixes with water in all proportions
<b>acidity ( <i>pKa</i> ) _</b>	-3

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## Packing

IBC Tank 1000 Lit

