

## Technical Data Sheet of Sulphuric Acid 98%

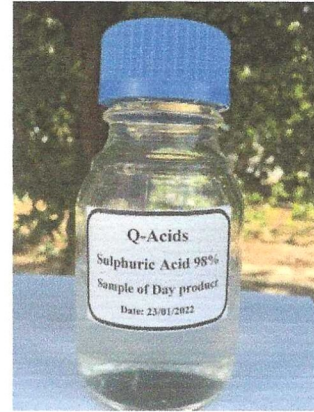
### 1. General product information

- Product Name: Sulfuric Acid 98%.
- CAS Number: 7664-93-9.
- Appearance: Clear, colourless, oily liquid.

### 2. Formula: $H_2SO_4$

### 3. Specifications and properties

- Assay (Purity): 98.0% minimum,
- Density: Approximately 1.84 g/mL at 25°C.
- Boiling Point: 290–330°C.
- Melting/Freezing Point: Varies slightly with concentration, but typically around -20°C for 98% acid.
- Solubility: Soluble in water, releasing a significant amount of heat.
- Typical Impurities: Maximum levels for common impurities like iron (Fe), residue on ignition, and other trace metals are usually listed.



### 4. Applications and uses: - 98% sulfuric acid is a key industrial chemical with widespread uses, including:

- Fertilizer production (e.g., phosphates and ammonium sulphate)
- Battery manufacturing (lead-acid batteries)
- Metal processing (pickling to remove rust)
- Chemical synthesis
- pH adjustment and water treatment
- Dye and pigment manufacturing

### 5. Safety and handling

- While a TDS focuses on product specifications, it will reference a corresponding Safety Data Sheet (SDS) for detailed information on safe handling, storage, and disposal practices, which are critical for this highly corrosive substance. The SDS covers crucial safety details such as:
- Corrosivity: Causes severe skin and eye burns.
- Protective Equipment: Requires impervious clothing, eye protection, and gloves.
- Hazards: May generate toxic fumes or gas if mixed with other chemicals, such as bleach.
- Storage: Should be stored in a cool, dry, well-ventilated area.