



TECHNICAL DATA SHEET

Industrial Sulfuric Acid

Product name: Sulfuric Acid

Chemical formula: H_2SO_4

CAS number: 7664-93-9

Molecular weight: 98.08 g/mol

Supplier: Basekim Company

Product Description

Industrial Sulfuric Acid is a strong mineral acid supplied as a clear, colourless liquid. It is used in fertilizer production, petroleum refining, metal treatment, mining and chemical manufacturing.

Typical Specification

Parameter	Typical Value
Sulfuric Acid concentration	70–98%
Appearance	Clear, colourless liquid
Density	Grade-dependent; up to approximately 1.84 g/cm ³
Iron, Fe	Grade-dependent
Chloride	Grade-dependent
Residue after ignition	Grade-dependent
Water	Balance
Solubility in water	Completely miscible

Exact limits must be confirmed in the Certificate of Analysis.

Available Concentrations

- 70%
- 78%
- 93%
- 96%
- 98%
- Custom industrial concentrations upon request



Main Applications

- Phosphate fertilizer production
- Petroleum refining
- Steel and metal pickling
- Copper, nickel and zinc processing
- Chemical manufacturing
- Detergent and pigment production
- pH control and industrial water treatment
- Battery and process-acid applications using the appropriate grade

Main Features

- High industrial purity
- Strong acidity
- Excellent dehydrating properties
- Suitable for large-scale industrial processes
- Multiple concentration options
- Bulk export availability

Physical Properties

Property	Typical Information
Physical form	Liquid
Colour	Clear and colourless
Odour	Slightly pungent or odourless
Density	Approximately 1.61–1.84 g/cm ³ , depending on concentration
Freezing point	Concentration-dependent
Boiling point	Concentration-dependent
Water solubility	Fully miscible
Flammability	Non-flammable

Packaging and Transport

Available in:

- ISO tanks
- Road tankers
- Bulk chemical vessels



All packaging and transport equipment must be approved for corrosive hazardous materials.

Storage

- Store in approved acid-resistant tanks.
- Use secondary containment.
- Keep away from incompatible materials.
- Protect tanks and pipelines from water contamination.
- Maintain adequate ventilation.
- Inspect equipment regularly for leaks and corrosion.

Shelf Life

Sulfuric acid is chemically stable under appropriate storage conditions. Storage life depends on tank material, contamination control and packaging integrity.

Disclaimer

The information represents typical industrial sulfuric acid properties. Actual concentration, density and impurity limits vary by grade and production source. Refer to the current Certificate of Analysis for guaranteed batch specifications.