

Sulphuric Acid

CAS 7664-93-9 · H_2SO_4 · 98% commercial / battery grade / 33% – 70% dilutions

Velora Chemicals Private Limited
Ahmedabad, Gujarat, India
+91 99255 22674 · info@velorachemicals.com

1. Product identity

Product name	Sulphuric Acid
Synonyms	sulfuric acid, oil of vitriol, battery acid, H_2SO_4
C.A.S. number	7664-93-9
Molecular formula	H_2SO_4
Molecular weight	98.08 g/mol
Grade supplied against	98% commercial / battery grade / 33% – 70% dilutions
Appearance	Odourless, colourless to pale yellow or brownish, oily, dense, hygroscopic liquid (commercial 98% is often straw-coloured from traces of iron and organics)
Product group	Mineral & Organic Acids
HSN code	2807 00 10
Country of origin	As stated on the producer's documents for the lot supplied; confirmed at offer stage
Packing	Road tanker · 250 kg HDPE drum / Road tanker · 250 kg drum
Storage	Store in a cool, dry, well-ventilated, bunded area in closed containers of 316L stainless steel, rubber- or PTFE-lined carbon steel, or suitable HDPE/FRP for the concentration. Keep strictly segregated from water sources, bases, metals, organics, combustibles, oxidisers, chlorates, cyanides and sulphides, and from food and feedstuffs. Protect containers from physical damage and from water ingress through vents. Provide eyewash, safety shower and spill neutralisation (soda ash or lime) at the point of use.

2. Analytical specification

S. No.	Test parameter	Specification	Method
1	Description	Odourless, colourless to pale yellow or brownish, oily, dense, hygroscopic liquid (commercial 98% is often straw-coloured from traces of iron and organics)	Visual
2	Identification	Conforms to the substance supplied	Instrumental or chemical test, per method agreed
3	Assay / grade	98% commercial / battery grade / 33% – 70% dilutions	Titrimetry or instrumental, per method agreed
4	Physical state	Liquid	Visual
5	Solubility in water	Miscible with water in all proportions; dilution is extremely exothermic and can flash-boil the water	Per the test method agreed

S. No.	Test parameter	Specification	Method
6	pH	<1 (as supplied, 98%); 0.3 in 1 N aqueous solution (Mallinckrodt SDS)	Potentiometry
7	Relative density	1.84 g/cm ³ at 20 C (relative density 1.8 per ILO ICSC 0362)	Densitometry / hydrometry
8	Melting / freezing point	Approx. 3 C for 98% acid (Mallinckrodt SDS, 90-100% grade). ILO ICSC 0362 quotes 10 C for concentrated acid (>51% and <100%); pure 100% H ₂ SO ₄ melts at about 10.4 C. Freezing point is very sensitive to exact strength	Capillary / thermal
9	Boiling point	Approx. 337 C (Mallinckrodt SDS); ILO ICSC 0362 states it decomposes at 340 C, evolving SO ₃ and sulphur oxides	Distillation range
10	Flash point	Not flammable (not applicable). Caution: the acid liberates flammable hydrogen gas on contact with many metals, and is a powerful dehydrating agent that can char and ignite organic material	Not applicable — the substance is not combustible
11	Additional parameters	To the specification agreed before order	As agreed

3. Transport classification

UN 1830 · Class 8 (Corrosive) · Packing group II

Proper shipping name: SULPHURIC ACID with more than 51% acid

What this document is. This is a product specification sheet. It states the grade this material is supplied against, its packing and its identity. **It is not a certificate of analysis, it carries no test results, and it certifies no batch.** Tested values for the consignment actually loaded appear on the batch certificate of analysis issued against that batch, which travels with the despatch documents. Identity and physical data are drawn from PubChem, the ECHA CLP inventory and ILO safety cards; the producer's documents for the grade quoted govern. Velora Chemicals Private Limited is a bulk supplier and trader, not a manufacturer.