

Sulfuric acid, solution 10% w/v, EssentQ®

Identification

H₂SO₄
M = 98,08 g/mol
CAS [7664-93-9]
EC number: 231-639-5
Taric code: 2807 00 00

Synonyms

Sulphuric acid

Applications

analytical chemistry, laboratory reagent, neutralising agent.

Specifications

assay (acidimetric).....	approx. 10 %	copper (Cu).....	max 0,01 ppm
colour (Hazen).....	max. 10	iron (Fe).....	max. 0,1 ppm
chlorides (Cl).....	max. 0,00001 %	lead (Pb).....	max. 0,02 ppm
nitrates (NO ₃).....	max. 0,00002 %	lithium (Li).....	max 0,01 ppm
phosphates (as PO ₄).....	max. 0,00005 %	magnesium (Mg).....	max. 0,05 ppm
aluminium (Al).....	max. 0,05 ppm	manganese (Mn).....	max 0,01 ppm
ammonium (NH ₄).....	max. 0,0002 %	nickel (Ni).....	max. 0,02 ppm
arsenic (As).....	max 0,01 ppm	potassium (K).....	max. 0,1 ppm
barium (Ba).....	max. 0,05 ppm	silver (Ag).....	max. 0,02 ppm
cadmium (Cd).....	max. 0,02 ppm	sodium (Na).....	max. 0,5 ppm
calcium (Ca).....	max. 0,2 ppm	zinc (Zn).....	max. 0,05 ppm
chromium (Cr).....	max. 0,05 ppm	substances reducing KMnO ₄	passes test
		residue on ignition.....	max. 0,0005 %

Physical data

- Density: 1,06 g/cm³
- pH < 1

Safety - GHS

Signal Word: Warning

Hazard Statements:

- H290: May be corrosive to metals.
H315: Causes skin irritation.
H319: Causes serious eye irritation.

**Precautionary Statements:**

- P280: Wear protective gloves / protective clothing / eye protection / face protection.
P264: Wash thoroughly after handling.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321: Specific treatment (see on this label).
P332+P313: If skin irritation occurs: Get medical advice / attention.
P337+P313: If eye irritation persists: Get medical advice / attention.

Transport/storage

- ADR: 8 C1 II • UN 2796 • SULPHURIC ACID
- IMDG: 8 II • UN 2796 • SULPHURIC ACID
- IATA/ICAO: 8 II • UN 2796 • SULPHURIC ACID
- PAX: 809
- CAO: 813
- 15°C - 25°C