

Identification

Ag₂SO₄
M = 311,79 g/mol
CAS [10294-26-5]
EC number: 233-653-7
Taric code: 2843 29 00

Synonyms

Sulfuric acid silver salt

Applications

analytical chemistry, laboratory reagent, catalyst (determining COD).

Specifications

assay (argentometric).....	min. 99,5 %	copper (Cu).....	max. 5 ppm
identity.....	passes test	iron (Fe).....	max. 10 ppm
insoluble in water and silver chloride.....	max. 0,02 %	lead (Pb).....	max. 10 ppm
chlorides (Cl).....	max. 0,001 %	nickel (Ni).....	max. 10 ppm
nitrates (NO ₃).....	max. 0,001 %	zinc (Zn).....	max. 5 ppm
		non precipitable with HCl (as SO ₄).....	max. 0,03 %

Physical data

- Spec. Density: 5,45 g/cm³
- Bulk density: ~ 1200 kg/m³
- Solub. in water: (25 °C): 8 g/l
- Melting point: 655 °C
- pH(5 g/l H₂O, 25 °C) ~ 5 - 6

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H318: Causes serious eye damage.
H410: Very toxic to aquatic life with long lasting effects.

**Precautionary Statements:**

- P280: Wear protective gloves / protective clothing / eye protection / face protection.
P273: Avoid release to the environment.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER or doctor / physician.
P391: Collect spillage.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 9 M7 III
- UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Silver sulfate)
- IMDG: 9 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Silver sulfate)
- IATA/ICAO: 9 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Silver sulfate)
- PAX: 956
- CAO: 956
- 10°C - 30°C