

Identification

CuSO₄
M = 159,60 g/mol
CAS [7758-98-7]
EC number: 231-847-6
Taric code: 2833 25 00

Synonyms

Copper monosulfate anhydrous, Copper vitriol anhydrous

Applications

analytical chemistry, for the detection of: water, in pharma industry.

Specifications

assay (iodometric, on dried sample).....	99,0 - 100,5 %	calcium (Ca).....	max. 0,005 %
Identification A (EP).....	passes test	iron (Fe).....	max. 0,003 %
Identification sulfates.....	passes test	lead (Pb).....	max. 5 ppm
Identification copper.....	passes test	nickel (Ni).....	max. 0,005 %
appearance of solution.....	clear	potassium (K).....	max. 0,01 %
chlorides (Cl).....	max. 150 ppm	sodium (Na).....	max. 0,02 %
		loss on drying (250 °C).....	max. 1,0 %

Physical data

- Appearance: powder, grey
- Spec. Density: 3,61 g/cm³
- Bulk density: ~ 800 kg/m³
- Solub. in water: (20 °C): 203 g/l
- pH(50 g/l H₂O, 20 °C) 3,5 - 4,5

Safety - GHS

Signal Word: Warning

Hazard Statements:

- H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H319: Causes serious eye irritation.

**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.
P321: Specific treatment (see on this label).
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
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.(Copper(II) sulfate anhydrous)
- IMDG: 9 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Copper(II) sulfate anhydrous)
- IATA/ICAO: 9 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Copper(II) sulfate anhydrous)
- PAX: 911
- CAO: 911
- 10°C - 30°C