

Cobalt(II) sulfate heptahydrate, for analysis, ExpertQ®

Identification

CoSO₄·7H₂O
 M = 281,10 g/mol
 CAS [10026-24-1]
 EC number: 233-334-2
 Taric code: 2833 29 30

Applications

analytical chemistry, laboratory reagent, in porcelain industry, pigment, manufacturing of inks.

Specifications

assay (complexometric).....	min. 99 %	lead (Pb).....	max. 0,001 %
insoluble in water.....	passes test	magnesium (Mg).....	max. 0,005 %
chlorides (Cl).....	max. 0,001 %	manganese (Mn).....	max. 0,0025 %
total nitrogen (as N).....	max. 0,002 %	nickel (Ni).....	max. 0,025 %
calcium (Ca).....	max. 0,005 %	potassium (K).....	max. 0,005 %
copper (Cu).....	max. 0,001 %	sodium (Na).....	max. 0,01 %
iron (Fe).....	max. 5 ppm	zinc (Zn).....	max. 0,005 %

Physical data

- Appearance: crystals, red or garnet
- Spec. Density: (25 °C) 1,95 g/cm³
- Bulk density: ~ 900 kg/m³
- Solub. in water: (20 °C): 260 g/l
- Melting point: 98 °C
- pH(100 g/l H₂O, 20 °C) ~ 4

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H350: May cause cancer.
 H400: Very toxic to aquatic life.
 H410: Very toxic to aquatic life with long lasting effects.
 H302: Harmful if swallowed.
 H317: May cause an allergic skin reaction.



Precautionary Statements:

- P284: Wear respiratory protection.
 P261: Avoid breathing dust / fume / gas / mist / vapours / spray.
 P280: Wear protective gloves / protective clothing / eye protection / face protection.
 P321: Specific treatment (see on this label).
 P405: Store locked up.
 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.(Cobalt(II) sulfate heptahydrate)
- IMDG: 9 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Cobalt(II) sulfate heptahydrate)
- IATA/ICAO: 9 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Cobalt(II) sulfate heptahydrate)
- PAX: 911
- CAO: 911
- 10°C - 30°C