

Cobalt(II) sulfate heptahydrate, EssentQ®**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. 98 % | copper (Cu)..... | max. 0,005 % |
| pH (5 %, H ₂ O)..... | min. 3 | iron (Fe)..... | max. 0,005 % |
| nitrogen compounds (as N)..... | max. 0,01 % | lead (Pb)..... | max. 0,005 % |
| chlorides (Cl)..... | max. 0,005 % | zinc (Zn)..... | max. 0,01 % |

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