

## Identification

CoCl<sub>2</sub>·6H<sub>2</sub>O

M = 237,93 g/mol

CAS [7791-13-1]

EC number: 231-589-4

Taric code: 2827 34 00

## Applications

analytical chemistry, laboratory reagent, invisible ink.

## Specifications

assay (complexometric).....	min. 98 %	iron (Fe).....	max. 0,005 %
identity (IR-spectrum).....	passes test	lead (Pb).....	max. 0,002 %
insoluble in water.....	max. 0,01 %	nickel (Ni).....	max. 0,15 %
sulfates (SO <sub>4</sub> ).....	max. 0,007 %	zinc (Zn).....	max. 0,05 %
copper (Cu).....	max. 0,005 %	non precipitable with (NH <sub>4</sub> ) <sub>2</sub> S (as SO <sub>4</sub> )	max. 0,3 %

## Physical data

- Appearance: crystals , red or garnet
- Spec. Density: (25 °C) 1,92 g/cm<sup>3</sup>
- Bulk density: ~ 1250 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 76 g/l
- Melting point: 56 °C
- pH(50 g/l H<sub>2</sub>O, 25 °C) ~ 4,9

## 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:

- P285: In case of inadequate ventilation 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.

## Toxicological data

- LD 50 (oral, rat): 766 mg/kg
- WGK: 2
- Poison class CH (Swiss): 3

## Transport/storage

- ADR: 6.1 T5 III • UN 3288 • TOXIC SOLID, INORGANIC, N.O.S.(Cobalt(II) chloride hexahydrate)
- IMDG: 6.1 III • UN 3288 • TOXIC SOLID, INORGANIC, N.O.S. (Cobalt(II) chloride hexahydrate)
- IATA/ICAO: 6.1 III • UN 3288 • TOXIC SOLID, INORGANIC, N.O.S. (Cobalt(II) chloride hexahydrate)
- PAX: 619
- CAO: 619