

**Cobalt(II) chloride hexahydrate, for analysis, ExpertQ®, ACS, ISO,
Reag. Ph Eur****Identification**

CoCl₂·6H₂O
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).....	99,0 - 102,0 %	lead (Pb).....	max. 5 ppm
identity (IR-spectrum).....	passes test	magnesium (Mg).....	max. 0,002 %
insoluble in water.....	max. 0,01 %	manganese (Mn).....	max. 0,001 %
nitrates (NO ₃).....	max. 0,01 %	nickel (Ni).....	max. 0,05 %
sulfates (SO ₄).....	max. 0,005 %	potassium (K).....	max. 0,005 %
calcium (Ca).....	max. 0,005 %	sodium (Na).....	max. 0,01 %
copper (Cu).....	max. 5 ppm	zinc (Zn).....	max. 0,002 %
iron (Fe).....	max. 0,005 %	non precipitable with (NH ₄) ₂ S (as SO ₄)max.	0,25 %

Physical data

- Appearance: crystals, red or garnet
- Spec. Density: (25 °C) 1,92 g/cm³
- Bulk density: ~ 1250 kg/m³
- Solub. in water: (20 °C): 76 g/l
- Melting point: 56 °C
- pH(50 g/l H₂O, 25 °C) ~ 4,9

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H302: Harmful if swallowed.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H350: May cause cancer.
H360FD: May damage fertility. May damage the unborn child.
H410: Very toxic to aquatic life with long lasting effects.

**Precautionary Statements:**

- P284: Wear respiratory protection.
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.
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) chloride hexahydrate)
- IMDG: 9 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Cobalt(II) chloride hexahydrate)
- IATA/ICAO: 9 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Cobalt(II) chloride hexahydrate)
- PAX: 956
- CAO: 956