

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

Co(NO₃)₂·6H₂O
M = 291,04 g/mol
CAS [10026-22-9]
EC number: 233-402-1
Taric code: 2834 29 20

Synonyms

Nitric acid cobalt salt hexahydrate

Applications

analytical chemistry, laboratory reagent, pigment, invisible ink.

Specifications

assay (complexometric).....	99,0 - 102,0 %	iron (Fe).....	max. 0,001 %
identity (IR-spectrum).....	passes test	lead (Pb).....	max. 0,001 %
insoluble in water.....	max. 0,005 %	magnesium (Mg).....	max. 0,005 %
chlorides (Cl).....	max. 0,002 %	manganese (Mn).....	max. 0,005 %
sulfates (SO ₄).....	max. 0,005 %	nickel (Ni).....	max. 0,001 %
ammonium (NH ₄).....	max. 0,05 %	potassium (K).....	max. 0,01 %
calcium (Ca).....	max. 0,005 %	sodium (Na).....	max. 0,05 %
copper (Cu).....	max. 0,001 %	zinc (Zn).....	max. 0,005 %

Physical data

- Appearance: crystals, dark red
- Spec. Density: 1,87 g/cm³
- Bulk density: ~ 800 kg/m³
- Solub. in water: (20 °C): soluble
- Melting point: 57 °C
- Flash point: 93 °C
- pH(100 g/l H₂O, 20 °C) ~ 4,0

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H272: May intensify fire; oxidiser.
H302+H332: Harmful if swallowed or if inhaled.
H318: Causes serious eye damage.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317: May cause an allergic skin reaction.
H360F: May damage fertility.
H341: Suspected of causing genetic defects.
H350i: May cause cancer by inhalation.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

**Precautionary Statements:**

- P221: Take any precaution to avoid mixing with combustibles.
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.
P370+P378: In case of fire: Use ... for extinction.
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 5.1 O2 II • UN 1477 • NITRATES, INORGANIC, N.O.S.
- IMDG: 5.1 II • UN 1477 • NITRATES, INORGANIC, N.O.S.
- IATA/ICAO: 5.1 II • UN 1477 • NITRATES, INORGANIC, N.O.S.
- PAX: 508
- CAO: 511
- 10°C - 30°C