



# Product Specification

## Product Name: COBALT (II) NITRATE Hexahydrate AR

Alternate Name(s) NITRATES, INORGANIC, N.O.S.; nitric acid cobalt salt hexahydrate;

Description cobaltous nitrate.

Red crystals. Deliquescent in moist air. Mixtures with combustible material are readily ignited and may burn fiercely.

### Properties

Chemical Formula:  $\text{Co}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$

Molecular Weight: 291.03

Product Code: CA091

CAS No. 10026-22-9

### General Information:

Soluble in water. Soluble in most organic solvents. Incompatible with readily oxidisable materials, sodium hypophosphite, stannous chloride, reducing agents, aluminium powder, strong acids, isothiocyanates and hypophosphites.

### Quality Specification

Assay: 98.00%

### Specific Properties and Impurities [Typical levels]:

Specific Gravity	1.88
Solubility in Water (100 °C)	2170 g/L
Melting Point	56 °C
Insoluble matter	≤ 0.01%
Chloride (Cl)	≤ 0.002%
Sulfate (SO <sub>4</sub> )	≤ 0.005%
Ammonium (NH <sub>4</sub> )	≤ 0.20%
Calcium (Ca)	≤ 0.005%
Copper (Cu)	≤ 0.002%
Iron (Fe)	≤ 0.001%
Lead (Pb)	≤ 0.002%
Magnesium (Mg)	≤ 0.005%
Nickel (Ni)	≤ 0.15%
Potassium (K)	≤ 0.01%
Sodium (Na)	≤ 0.05%
Zinc (Zn)	≤ 0.01%

### Hazard and Safety Data

UN Group:	II
Class:	5.1
UN Number:	1477
Hazchem code:	1[Z]
CS MSDS Code:	1CH20
Poison schedule:	Not Scheduled
Emergency Procedure Guide No.:	31

CONFORMS TO ACS

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