

Cadmium nitrate tetrahydrate, for analysis, ExpertQ®

Identification

$\text{Cd}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$
M = 308,47 g/mol
CAS [10022-68-1]
EC number: 233-710-6
Taric code: 2834 29 20

Synonyms

Nitric acid cadmium salt tetrahydrate

Applications

analytical chemistry, laboratory reagent, photography, for the synthesis of: cadmium salts.

Specifications

assay (complexometric).....	min. 99 %	copper (Cu).....	max. 0,001 %
insoluble in water.....	max. 0,005 %	heavy metals (as Pb).....	max. 5 ppm
pH (5 %, H ₂ O).....	4,5 - 7,0	iron (Fe).....	max. 0,001 %
chlorides (Cl).....	max. 0,001 %	lead (Pb).....	max. 0,005 %
phosphates (as PO ₄).....	max. 0,001 %	magnesium (Mg).....	max. 0,01 %
sulfates (SO ₄).....	max. 0,005 %	potassium (K).....	max. 0,002 %
ammonium (NH ₄).....	max. 0,01 %	sodium (Na).....	max. 0,01 %
barium (Ba).....	max. 0,005 %	strontium (Sr).....	max. 0,01 %
calcium (Ca).....	max. 0,005 %	zinc (Zn).....	max. 0,005 %

Physical data

- Appearance: humid crystals, colourless
- Spec. Density: 2,46 g/cm³
- Bulk density: ~ 1100 kg/m³
- Solub. in water: (20 °C): soluble
- Melting point: 59 °C
- pH(50 g/l H₂O, 20 °C) ~ 3,9
- Hygroscopic

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H301: Toxic if swallowed.
- H312: Harmful in contact with skin.
- H330: Fatal if inhaled.
- H340: May cause genetic defects.
- H350: May cause cancer.
- H372: Causes damage to organs through prolonged or repeated exposure.
- H410: Very toxic to aquatic life with long lasting effects.

**Precautionary Statements:**

- P260: Do not breathe dust / fume / gas / mist / vapours / spray.
- P284: Wear respiratory protection.
- P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P320: Specific treatment is urgent (see on this label).
- P405: Store locked up.
- P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 6.1 T5 III • UN 2570 • CADMIUM COMPOUND(Cadmium nitrate tetrahydrate)
- IMDG: 6.1 III • UN 2570 • CADMIUM COMPOUND(Cadmium nitrate tetrahydrate)
- IATA/ICAO: 6.1 III • UN 2570 • CADMIUM COMPOUND(Cadmium nitrate tetrahydrate)
- PAX: 619
- CAO: 619
- 15°C - 25°C