

**Cadmium nitrate tetrahydrate, EssentQ®****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. 0,003 %
insoluble in water.....	max. 0,01 %	iron (Fe).....	max. 0,001 %
chlorides (Cl).....	max. 0,005 %	lead (Pb).....	max. 0,005 %
ammonium (NH <sub>4</sub> ).....	max. 0,03 %	sodium (Na).....	max. 0,01 %
		zinc (Zn).....	max. 0,005 %

**Physical data**

- Appearance: humid crystals, colourless
- Spec. Density: 2,46 g/cm<sup>3</sup>
- Bulk density: ~ 1100 kg/m<sup>3</sup>
- Solub. in water: (20 °C): soluble
- Melting point: 59 °C
- pH(50 g/l H<sub>2</sub>O, 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