CADMIUM NITRATE TETRAHYDRATE

- Synonyms: Nitric acid cadmium salt tetrahydrate
- $Cd(NO_3)_2 \cdot 4H_2O$
- M = 308,47 g/mol
- CAS [10022-68-1]
- EINECS-No.: 233-710-6
- Solub. in water: (20 °C): soluble
- Melting point: 59 °C
- LD 50 (oral, rat): 300 mg/kg
- EC-Index-No.: 048-001-00-5
- ADR: 6.1 T5 III UN 2570
- IMDG: 6.1 III UN 2570
- IATA/ICAO: 6.1 III UN 2570
- GHS-signal word: Warning
- GHS-H sentences: H302 - H312 - H330 - H410
- GHS-P sentences: P201 - P260 - P280 - P301 - P310 - P330 - P331 - P304 - P340 - P310 - P501a
- Tariff number: 2834 29 20 00
- Applications: analytical chemistry, laboratory reagent, photography, for the synthesis of: cadmium salts.
- Appearance: White crystals

CA0097 Cadmium nitrate tetrahydrate, EssentQ®

assay (complexometric) . . . . . min. 99 %
insoluble in water . . . . . max. 0,01 %
chlorides (Cl) . . . . . max. 0,005 %
ammonium (NH_4) . . . . . max. 0,03 %
copper (Cu) . . . . . max. 0,003 %
iron (Fe) . . . . . max. 0,001 %
lead (Pb) . . . . . max. 0,005 %
sodium (Na) . . . . . max. 0,01 %
zinc (Zn) . . . . . max. 0,005 %

ART. NO.	VOLUME	CONTAINER
CA00970250	250 g	P

CA0100 Cadmium nitrate tetrahydrate, ExpertQ®, for analysis

assay (complexometric) . . . . . min. 99 %
insoluble in water . . . . . max. 0,005 %
pH (5 %, H_2O) . . . . . 4,5 - 7,0
chlorides (Cl) . . . . . max. 0,001 %
phosphates (as PO_4) . . . . . max. 0,001 %
sulfates (SO_4) . . . . . max. 0,005 %
ammonium (NH_4) . . . . . max. 0,01 %
barium (Ba) . . . . . max. 0,005 %
calcium (Ca) . . . . . max. 0,005 %
copper (Cu) . . . . . max. 0,001 %
heavy metals (as Pb) . . . . . max. 5 ppm
iron (Fe) . . . . . max. 0,001 %
lead (Pb) . . . . . max. 0,005 %
magnesium (Mg) . . . . . max. 0,01 %
potassium (K) . . . . . max. 0,002 %
sodium (Na) . . . . . max. 0,01 %
strontium (Sr) . . . . . max. 0,01 %
zinc (Zn) . . . . . max. 0,005 %

ART. NO.	VOLUME	CONTAINER
CA01000250	250 g	P
CA01001000	1 kg	P

CADMIUM OXIDE

CA0110 Cadmium oxide, EssentQ®

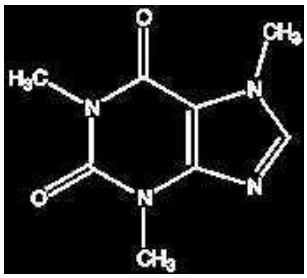
- CdO
- M = 128,40 g/mol
- CAS [1306-19-0]
- EINECS-No.: 215-146-2
- Solub. in water: (20 °C): insoluble
- Melting point: < 1426 °C
- Boiling point: 1559 °C
- LD 50 (oral, rat): 72 mg/kg
- EC-Index-No.: 048-002-00-0
- ADR: 6.1 T5 III UN 2570
- IMDG: 6.1 III UN 2570
- IATA/ICAO: 6.1 III UN 2570
- GHS-signal word: Danger
- GHS-H sentences: H330 - H350 - H372 - H341 - H361fd - H400 - H410
- GHS-P sentences: P260 - P284 - P281 - P320 - P405 - P501a
- Tariff number: 2825 90 60 00
- Applications: synthesis of organic products, electrolyte for batteries, laboratory reagent.
- Appearance: Reddish-brown solid

assay (complexometric) . . . . . min. 99 %
chlorides (Cl) . . . . . max. 0,002 %
sulfates (SO_4) . . . . . max. 0,01 %
copper (Cu) . . . . . max. 0,001 %
iron (Fe) . . . . . max. 0,001 %
nickel (Ni) . . . . . max. 0,005 %
lead (Pb) . . . . . max. 0,005 %
zinc (Zn) . . . . . max. 0,005 %
grain size (D50) . . . . . 0,5 - 1,5 mm
spec. surface (BET) . . . . . 2 - 4 m^2/g

ART. NO.	VOLUME	CONTAINER
CA01100250	250 g	P
CA0110025P	25 kg	P

CAFFEINE ANHYDROUS

CA0150 Caffeine anhydrous, extra pure, Pharmpur®, Ph Eur, BP, USP



- Synonyms: 7-Methyltheobromine, 1,3,7-Trimethylxanthine, 3,7-Dihydro-1,3,7-trimethyl-1H-purine-2,6-dione
- $C_8H_{10}N_4O_2$
- M = 194,19 g/mol
- CAS [58-08-2]
- EINECS-No.: 200-362-1
- Solub. in water: (20 °C): 20 g/l
- Melting point: 235 - 238 °C
- Ignition temp.: > 600 °C
- LD 50 (oral, rat): 261 - 383 mg/kg
- EC-Index-No.: 613-086-00-5
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P330 - P301 + P312 - P501a
- Tariff number: 2939 30 00 00
- Applications: analytical chemistry, for pharmaceutical use, in food industry, in pharma industry.

assay (titratrion with $HClO_4$, on dried sample) . . . . . 98,5 - 101,5 %
Assay (HPLC, referred to dried sample) . . . . . 98,5 - 101,0 %
identification . . . . . passes test
appearance of solution . . . . . clear and colourless
acidity . . . . . passes test
related substances . . . . . passes test
sulfates (SO_4) . . . . . max. 500 ppm
loss on drying (105 °C) . . . . . max. 0,5 %
water . . . . . max. 0,5 %
residue on ignition . . . . . max. 0,1 %
Elemental impurities are analysed according to guideline CHMP/ICH/353369/2013.
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

ART. NO.	VOLUME	CONTAINER
CA01501000	1 kg	P
CA0150005P	5 kg	P