



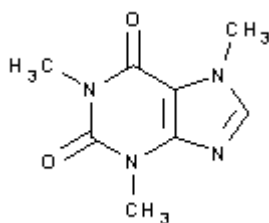
**PRODUCT CODE: 142833**

**Caffeine anhydrous (BP, Ph. Eur.) pure, pharma grade**

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$C_8H_{10}N_4O_2$

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M.= 194,19

CAS [58-08-2]

EINECS 200-362-1

TARIC 2939 30 00 00

**SYNONYMS:** 1,3,7-Trimethylxantine, 3,7-Dihydro-1,3,7-Trimethyl-1H-Purin-2,6-Dione, 7-Methyltheobromine

**PHYSICAL DATA:** crystals, crystalline powder, White, Soluble in water 22 g/l at 20 °C D 1,23 • M.P.: 238 °C • pH(1% sol.)6,9 •

**BIBLIOGRAPHY:** Merck Index **12**, 1.674 13, 1.636 Sax **CAK500** • Safety **2**, **664 C** • Römp **8**, **793** • Beilstein **26**, **461 IV**, **2338** • BRN 17705 • BP.**2018** • USP **41** • Ph. Eur. **8.0** (2014) **9.0** (2017) 6.1 • F.C.C **IV52** • Royal Decree I554 •

**HAZARDOUS:** C.E: 613-086-00-5 • RTECS: EV 7465000 • LD L0 oral man 192 mg/kg • LD L0 oral man F 1.000 mg/kg • LD50 oral rat 192 mg/kg • LD50 ipr mus 168 mg/kg



H: H302 •

P: P264 • P270 • P301+P312 • P330 • P501 •

**TRANSPORT REGULATIONS:** UN: 1544 • ADR: 6.1/III • IMDG: 6.1/III • IATA: 6.1/III • PAX: 670 • CAO: 677 • (E) •

**SPECIFICATIONS:**

Assay (Perchl. Ac.) calc. a.d.s.	98,5-101,5 %
Identity :	
Identity according to Pharmacopoeias:	passes test
Melting range (a.d.s.)	234-239°C

**Maximum limit of impurities**

Appearance of solution	passes test
Acidity	passes test

Insoluble matter in H <sub>2</sub> O	passes test
Loss on drying	0,5%
Residue on ignition (as SO <sub>4</sub> )	0,1 %
Sulfate (SO <sub>4</sub> )	0,05%
Chromatographic purity	passes test
Related Substances (HPLC)	
Individual impurity	0,10%
Total impurities	0,1%
Residual solvents (Ph.Eur/USP)	passes test
Heavy metals (as Pb)	0,001%

As	0,0003 %
Cu	0,001 %
Fe	0,002 %
Ni	0,001 %
Pb	0,001 %

Residual metals (according to EMEA/CHMP/SWP/4446/2000): Nickel compounds as metal catalyst (class 1C classification) can be present. It is below to 0,2 ppm. It is fully in compliance with the EMEA guideline.