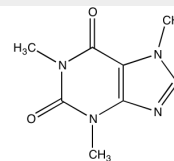


Identification

$C_8H_{10}N_4O_2$
 M = 194,19 g/mol
 CAS [58-08-2]
 EC number: 200-362-1
 Taric code: 2939 30 00


Synonyms

7-Methyltheobromine, 1,3,7-Trimethylxanthine, 3,7-Dihydro-1,3,7-trimethyl-1H-purine-2,6-dione

Applications

analytical chemistry, for pharmaceuticals synthesizing, in food industry, in pharma industry.

Specifications

assay (titration with $HClO_4$,
 on dried sample..... 98,5 - 101,5 %
 Assay (HPLC, referred
 to dried sample)..... 98,5 - 101,0 %
 Identification IR..... passes test
 Identification B (USP)..... passes test
 Identification C (EP)..... passes test
 Identification D (EP)..... passes test
 Identification xantines..... passes test

melting point..... 234 - 239 °C
 appearance of solution..... clear and colourless
 acidity..... passes test
 Related substances:
 unspecified impurities..... max. 0,10 %
 total impurities..... max. 0,10 %
 sulfates (SO_4)..... max. 500 ppm
 loss on drying (105 °C)..... max. 0,5 %
 water max. 0,5 %
 residue on ignition..... max. 0,1 %

Physical data

- Appearance: floury powder, white
- Spec. Density: 1,23 g/cm³
- Bulk density: ~ 220 kg/m³
- Solub. in water: (20 °C): 20 g/l
- Melting point: 235 - 238 °C
- Flash point: 93°C
- Ignition temperature: > 600 °C
- pH(10 g/l H_2O , 20 °C) 5,5 - 6,5

Safety - GHS

Signal Word: Warning

Hazard Statements:

H302: Harmful if swallowed.


Precautionary Statements:

P264: Wash thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P330: Rinse mouth.
 P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- 10°C - 30°C