

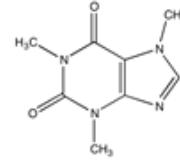
**Identification**C<sub>8</sub>H<sub>10</sub>N<sub>4</sub>O<sub>2</sub>

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<sub>4</sub>,  
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<sub>4</sub>)..... 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/cm<sup>3</sup>
- Bulk density: ~ 220 kg/m<sup>3</sup>
- 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<sub>2</sub>O, 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