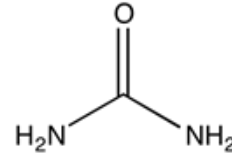


Identification

CH₄N₂O
M = 60,06 g/mol
CAS [57-13-6]
EC number: 200-315-5
Taric code: 3102 10 10

**Synonyms**

Carbamide, Carbonyldiamide

Applications

laboratory reagent, in biochemistry, in fertilizer compositions, manufacturing of synthetic resins, in the plastics industry, for reversible denaturation of proteins.

Specifications

assay (DSC).....	min. 99,5 %	cyanides (CN).....	max. 0,000001 %
identity (IR-spectrum).....	passes test	sulfates (SO ₄).....	max. 0,001 %
appearance.....	passes test	ammonium (NH ₄).....	max. 0,00001 %
appearance of solution.....	passes test	heavy metals (as Pb).....	max. 4 ppm
absorbance of an aqueous solution 8 M in a 1 cm cell at 260 nm max. 0,1 AU		iron (Fe).....	max. 0,2 ppm
absorbance of an aqueous solution 8 M in a 1 cm cell at 280 nm max. 0,1 AU		biuret.....	max. 0,05 %
chlorides (Cl).....	max. 0,0005 %	residue on ignition (800 °C).....	max. 0,01 %
		DNases, RNases, Proteases	non detected

Physical data

- Spec. Density: 1,34 g/cm³
- Bulk density: ~ 750 kg/m³
- Solub. in water: (20 °C): 590 g/l
- Melting point: 132,5 - 134,5 °C
- Vapour pressure: (75 °C) ~ 0,002 hPa
- pH(100 g/l H₂O, 20 °C) ~ 9,5

Transport/storage

- 5°C - 30°C