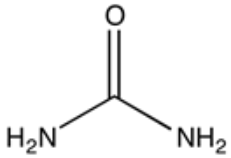
UR0131
Urea, for analysis, ExpertQ®, ACS

Identification

CH_4N_2O
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 (titration with HClO4)	99 - 100,5 %
identity (IR-spectrum)	passes test
melting point	132 - 135 °C
insoluble in water	max. 0,005 %
acidity (as HCl)	max. 0,002 %
alkalinity (as NaOH)	max. 0,01 %
chlorides (Cl)	max. 0,0005 %
sulfates (SO_4)	max. 0,001 %
copper (Cu)	max. 2 ppm
heavy metals (as Pb)	max. 4 ppm
iron (Fe)	max. 1 ppm
nickel (Ni)	max. 2 ppm
biuret	max. 0,1 %
residue on ignition	max. 0,01 %

Physical data

- Spec. Density: 1,34 g/cm^3
- Bulk density: ~ 750 kg/m^3
- Solub. in water: (20 ºC): 590 g/l
- Melting point: 132,5 - 134,5 ºC
- Vapour pressure: (75 ºC) ~ 0,002 hPa
- pH(100 g/l H_2O, 20 ºC) ~ 9,5

Transport/storage

- 5°C - 30°C