

UREA AR SPECIAL QUALITY FOR BIOCHEMICAL PURPOSE MEETS ANALYTICAL SPECIFICATION IP, BP, USP, Ph. Eur.

PRODUCT CODE		671815
SYNONYMS		--
C.I. NO.		--
CASR NO.		(57-13-6)
ATOMIC OR MOLECULAR FORMULA		NH ₂ CONH ₂
ATOMIC OR MOLECULAR WEIGHT		60.06
PROPERTIES		Develops odour of ammonia. Almost insoluble in chloroform and ether.Soluble in concentrated HCl
PARAMETER		LIMIT
Description		A white crystalline powder or transparent crystals.
Solubility		10% solution in water is clear, colourless.
Identification (By FTIR)		Conforms
Assay (Calculated with respect to dried substance.; Kjeldahl method)		99.0 – 101%
Melting Point		132°- 135°C
MAXIMUM LIMIT OF IMPURITIES		
Loss on drying (at 105°C)		1.0%
Sulphated ash		0.01%
Insoluble matter		0.003%
Ethanol insoluble matter		0.04%
Alkalinity		0.05 ml N/1%
Ammonium		0.05%
Biuret (C ₂ H ₅ N ₃ O ₂)		0.05%
Chloride (Cl)		0.0005%
Sulphate (SO ₄)		0.001%
Iron (Fe)		0.0001%
Heavy metals (as Pb)		0.001%
Note(s) :Assay (if applicable) method mentioned.		
WARNING		IMDG Code : UN No. : IATA :
Hazard statements :Causes mild skin irritation.		
Precautionary statements		
Prevention: -----		
Response: If skin irritation occurs, seek medical advice/attention		
Disposal: The waste chemical should be buried on a stage approved site .The liquids should be absorbed on sand. The chemical should be mixed combustible solvent and burnt in a chemical incinerator equipped with burner and scrubber.		
Hazard Pictogram(s) :		

NC(=O)N

Replace Date 29-Nov-2025