

Product Name: Urea, ≥99.5%, Molecular Biology Grade, Ultrapure
Catalog Number: J75826.A1

CAS Number: 57-13-6
IUPAC Name: urea
Molecular Formula: CH₄N₂O
Molecular Weight: 60.06
InChI Key: XSQUKJJJFZCRTK-UHFFFAOYSA-N
SMILES: NC(N)=O
Synonym: urea karbamid harnstoff H₂NC(O)NH₂ uree carbonyldiamide UREA

Product Specification

Form: White crystalline powder
Assay (unspecified): ≥99.5%
Assay (unspecified): Cyanate: None detected
Chloride content: ≤ 0.0005%
Identification (FTIR): Conforms
Residue on ignition: ≤ 0.01%
Impurity content: Sulfate (SO₄): ≤ 0.001%
Insoluble material: ≤ 0.01%
Melting Point: 132? - 135?C
Protease activity: Passes test
RNase: Passes test
Spectral Ratio: (260 nm, 6M, 1 cm): ≤ 0.055
Spectral Ratio: (280 nm, 6M, 1 cm): ≤ 0.044
Trace Metal: Iron (Fe): ≤ 0.5 ppm
Trace Metal: Lead (Pb): ≤ 0.5 ppm
DNase: Passes test
Trace Metal: Copper (Cu): ≤ 0.5 ppm

Date Of Print: 06/15/2025

Product Specifications are subject to amendment and may change over time. Data contained is accurate as of the date printed.