

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

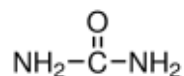
Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Product Specification

Product Name:
Urea - BioXtra, pH 7.5-9.5 (20 °C, 5 M in H₂O)

Product Number: U0631
CAS Number: 57-13-6
MDL: MFCD00008022
Formula: CH₄N₂O
Formula Weight: 60.06 g/mol



TEST	Specification
Solubility (Color)	Colorless
Solubility (Turbidity)	Clear
5 M, H ₂ O, 20 deg C	
Infrared spectrum	Conforms to Structure
Ammonia (NH ₄)	≤ 0.05 %
pH	7.5 - 9.5
5 M, H ₂ O, 20 deg C	
Chloride Content	≤ 0.05 %
Sulfate	≤ 0.05 %
Aluminum (Al)	≤ 0.0005 %
Phosphorus (P)	≤ 0.005 %
Lead (Pb)	≤ 0.001 %
Iron (Fe)	≤ 0.0005 %
Copper (Cu)	≤ 0.0005 %
Zinc (Zn)	≤ 0.0005 %
Calcium (Ca)	≤ 0.001 %
Magnesium (Mg)	≤ 0.0005 %
Sodium (Na)	≤ 0.005 %
Potassium (K)	≤ 0.005 %
A260 UV Absorption	≤ 0.06
6 M, H ₂ O	
A280 UV Absorption	≤ 0.06
6 M, H ₂ O	
Assay	99.0 - 100.5 %

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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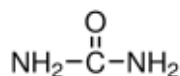
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TEST	Specification
Recommended Retest Period	-----
5 years	
Residue on ignition (Ash)	≤ 0.1 %
Insoluble matter	≤ 0.1 %
Appearance (Color)	White
Appearance (Form)	Powder or Crystals or Pellets

Specification: PRD.3.ZQ5.10000035932

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