

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:
Trizma[®] base - ≥99.9% (titration), crystalline

Product Number: T4661
CAS Number: 77-86-1
MDL: MFCD00004679
Formula: C₄H₁₁NO₃
Formula Weight: 121.14 g/mol



TEST	Specification
ICP-MS (Total: Ag, As, Bi, Cd, Cu, Hg, Mo, Pb, Sb, Sn)	≤ 2 ppm
Appearance (Color)	White
Appearance (Form)	Crystalline Powder
Water (by Karl Fischer)	≤ 0.2 %
UV Absorbance 290nm 40% (w/w)	≤ 0.05
Initial Melting Point	≥ 168 °C
Final Melting Point	≤ 172 °C
Titration with H ₂ SO ₄ (Anhydrous)	≥ 99.9 %
Infrared spectrum	Conforms to Structure
Solubility (Color)	Colorless
Solubility (Turbidity) 400 g plus 600 ml of H ₂ O	Clear
Residual Solvents Based on the knowledge of the manufacturing process there is no potential for the specific solvents to be present. The material, if tested, will comply with the current USP requirements.	Meets Requirements
Recommended Retest Period 6 years	-----
Iron (Fe)	< = 5 ppm
Insoluble	< = 0.005%
Identity Test B (USP)	Conforms
Identity Test C (USP)	Conforms

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.

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Product Specification

Product Name:
Trizma[®] base - ≥99.9% (titration), crystalline

Product Number: T4661
CAS Number: 77-86-1
MDL: MFCD00004679
Formula: C₄H₁₁NO₃
Formula Weight: 121.14 g/mol



TEST	Specification
pH 5% solution	10.0 - 11.5
Loss on Drying	≤ 1.0 %
Residue on ignition (Ash)	≤ 0.1 %
Titration with HCl	99.0 - 101.0 %

Specification: PRD.5.ZQ5.10000029761

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.