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## Product Specification

Product Name:  
Trizma® base - Primary Standard and Buffer, ≥99.9% (titration), crystalline

Product Number: T1503  
CAS Number: 77-86-1  
MDL: MFCD00004679  
Formula: C<sub>4</sub>H<sub>11</sub>NO<sub>3</sub>  
Formula Weight: 121.14 g/mol



TEST	Specification
Appearance (Color)	White
Appearance (Form)	Crystalline Powder
Solubility (Color)	Colorless
Solubility (Turbidity)	Clear
200 g plus 300 ml of H <sub>2</sub> O	
Infrared spectrum	Conforms to Structure
Water (by Karl Fischer)	≤ 0.2 %
UV Absorbance 290nm	≤ 0.05
40% (w/w)	
Iron (Fe)	≤ 1 ppm
ICP atomic emission	
ICP-MS	≤ 2 ppm
(Total: Ag, As, Bi, Cd, Cu, Hg, Mo, Pb, Sb, Sn)	
Initial Melting Point	≥ 168 °C
Final Melting Point	≤ 172 °C
Titration with H <sub>2</sub> SO <sub>4</sub>	≥ 99.9 %
(Anhydrous)	
Recommended Retest Period	-----
6 years	

Specification: PRD.5.ZQ5.10000006744

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](http://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.