

## Certificate of Analysis

Product Name:

Trizma® base – Primary Standard and Buffer, ≥99.9% (titration), crystalline

**Product Number:** T1503  
**Batch Number:** SLCD9838  
**Brand:** SIGMA  
**CAS Number:** 77-86-1  
**MDL Number:** MFCD00004679  
**Formula:** C<sub>4</sub>H<sub>11</sub>NO<sub>3</sub>  
**Formula Weight:** 121.14 g/mol  
**Quality Release Date:** 12 JAN 2021  
**Recommended Retest Date:** JAN 2026



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Crystalline Powder	Crystalline Powder
Solubility (Color)	Colorless	Colorless
Solubility (Turbidity)	Clear	Clear
200 g plus 300 ml of H <sub>2</sub> O		
Infrared spectrum	Conforms to Structure	Conforms
Water (by Karl Fischer)	≤ 0.2 %	0.1 %
UV Absorbance 290nm	≤ 0.05	0.02
40% (w/w)		
ICP-MS	≤ 2 ppm	< 2 ppm
(Total: Ag, As, Bi, Cd, Cu, Hg, Mo, Pb, Sb, Sn)		
Iron (Fe)	≤ 1 ppm	< 1 ppm
ICP atomic emission		
Initial Melting Point	≥ 168 °C	171 °C
Final Melting Point	≤ 172 °C	172 °C
Titration with H <sub>2</sub> SO <sub>4</sub>	≥ 99.9 %	100.1 %
(Anhydrous)		

Brian Dulle, Supervisor

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.



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Quality Assurance  
St. Louis, Missouri US

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