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## Product Specification

Product Name:  
Trizma® base - BioXtra, pH 10.5-12.0 (1 M in H<sub>2</sub>O), ≥99.9% (titration)

Product Number: T6791  
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)	Powder
Solubility (Color)	Colorless
Turbidity	≤ 10.0 NTU
1M in H <sub>2</sub> O at 20 deg C	
Loss on Drying	≤ 0.5 %
110 deg C	
Residue on ignition (Ash)	≤ 0.01 %
SO <sub>4</sub> , 900 deg C	
Insoluble matter	≤ 0.005 %
Arsenic (As)	< = 0.0001%
Chloride (Cl)	≤ 0.005 %
Sulfate (SO <sub>4</sub> )	≤ 0.005 %
Aluminum (AL)	≤ 0.0005 %
Bismuth ( Bi)	≤ 0.0005 %
Lead (Pb)	≤ 0.0005 %
Cadmium (Cd)	≤ 0.0005 %
Cobalt ( Co)	≤ 0.0005 %
Copper (Cu)	≤ 0.0005 %
Strontium (Sr)	≤ 0.0005 %
Zinc (Zn)	≤ 0.0005 %
Barium (Ba)	≤ 0.0005 %
Potassium (K)	≤ 0.005 %
Calcium (Ca)	≤ 0.001 %

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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**CAS Number:** 77-86-1  
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**Formula Weight:** 121.14 g/mol



TEST	Specification
Chromium (Cr)	≤ 0.0005 %
Magnesium (Mg)	≤ 0.0005 %
Manganese (Mn)	≤ 0.0005 %
Iron (Fe)	≤ 0.0005 %
Lithium (Li)	≤ 0.0005 %
Molybdenum (Mo)	≤ 0.0005 %
Sodium (Na)	≤ 0.005 %
Nickel (Ni)	≤ 0.0005 %
A260 UV Absorption (1 M in H <sub>2</sub> O)	≤ 0.025
A280 UV Absorption (1 M in H <sub>2</sub> O)	≤ 0.020
pH 1 M in water, at 20 Deg C	10.5 - 12.0
Recommended Retest Period 6 years	-----
Titration with H <sub>2</sub> SO <sub>4</sub> (Anhydrous)	≥ 99.9 %

Specification: PRD.6.ZQ5.10000005178

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