

## Product Specification

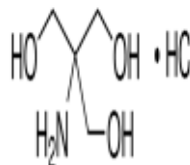
Product Name:  
TRIS hydrochloride -

Product Number: RES3098T-B7

CAS Number: 1185-53-1

Formula: C<sub>4</sub>H<sub>11</sub>NO<sub>3</sub>·HCl

Formula Weight: 157.60 g/mol



TEST	Specification
Appearance (Color)	White
Appearance (Form)	Crystalline Powder
Infrared Spectrum	Conforms to Reference
Solubility (Turbidity)	Clear
1.0 M aqueous	
Solubility (Color)	Colorless
1.0 M aqueous	
Solubility (Form)	Solution
Water (by Karl Fischer)	≤ 0.5 %
Titration with NaOH	≥ 99.5 %
dried basis	
Loss on Drying	≤ 0.5 %
Cytotoxicity	Pass
Initial Melting Point	≥ 149 °C
Final Melting Point	≤ 153 °C
RNase Detection	Pass
DNase - Nickase	Pass
DNase-Endo/Exonuclease	Pass
pH	4.2 - 5.0
1.0% aqueous	
Endotoxin	≤ 50 EU/g
Yeast and Mold	≤ 100 CFU/g
Bioburden	≤ 100 CFU/g
Protease Detection	Pass
Arsenic (As)	≤ 3.0 ppm

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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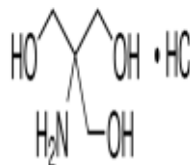
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Iron (Fe)	≤ 5.0 ppm
Zinc (Zn)	≤ 5.0 ppm
Magnesium (Mg)	≤ 5.0 ppm
Manganese (Mn)	≤ 5.0 ppm
Calcium (Ca)	≤ 10.0 ppm
Lead (Pb)	≤ 5.0 ppm
Bismuth (Bi)	≤ 5.0 ppm
Lithium (Li)	≤ 5.0 ppm
Molybdenum (Mo)	≤ 5.0 ppm
Aluminum (Al)	≤ 5.0 ppm
Antimony (Sb)	≤ 5.0 ppm
Barium (Ba)	≤ 5.0 ppm
Cobalt (Co)	≤ 5.0 ppm
Chromium (Cr)	≤ 5.0 ppm
Cadmium (Cd)	≤ 5.0 ppm
Copper (Cu)	≤ 5.0 ppm
Nickel (Ni)	≤ 5.0 ppm
UV Absorbance 260nm 1.0 M aqueous	≤ 0.06
UV Absorbance 280nm 1.0 M aqueous	≤ 0.05
Site of Manufacturing	Cleveland, OH

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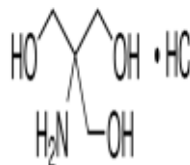
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