

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-04-13 13:51:34
 Date of Next Testing: 2026-04-12 13:51:34
 Product Name: **Tris(hydroxymethyl)aminomethane (Tris base)**
 CAS Number: 77-86-1
 Specifications & Purity: $\geq 99\%$ (T)
 Lot #: D2307701
 SKU #: **T434094**
 Version: **1**
 Analysis #: **189065**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(Titration)(HCl 1M)	99-101 (%)	99.76000 %
Loss on drying	0-1 (%)	0.21550 %
Calcium(Ca)	0-10 (ppm)	0.00000 ppm
Cadmium(Cd)	0-5 (ppm)	0.00000 ppm
Cobalt(Co)	0-5 (ppm)	0.00000 ppm
Chromium (ICP)	0-5 (ppm)	0.00000 ppm
Copper(Cu)	0-5 (ppm)	0.00000 ppm
Iron(Fe)	0-5 (ppm)	0.00000 ppm
Potassium(K)	0-50 (ppm)	0.00000 ppm
Magnesium(Mg)	0-5 (ppm)	0.00000 ppm
Manganese(Mn)	0-5 (ppm)	0.00000 ppm
Sodium(Na)	0-50 (ppm)	0.00000 ppm
Nickel(Ni)	0-5 (ppm)	0.00000 ppm
Lead(Pb)	0-5 (ppm)	0.00000 ppm
Zinc(Zn)	0-5 (ppm)	0.00000 ppm
Total sulfur as SO ₄ (ICP)	0-50 (ppm)	0.00000 ppm
Chloride (Cl ⁻)	0-50 (ppm)	0.00000 ppm
Melting point	168-172 (°C)	171.89000 °C
Appearance(T434094)	White to Off-White Solid, Powder, or Crystals	White to Off-White Solid, Powder, or Crystals
Solubility in H ₂ O,clear colorless,1M in Water	Pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



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A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager