

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-12-29 17:20:41  
 Date of Next Testing: 2026-12-28 17:20:41  
 Product Name: **Tris(hydroxymethyl)aminomethane**  
 CAS Number: 77-86-1  
 Specifications & Purity: Primary Standard and Buffer, ≥99.9% (titration)  
 Lot #: L2228064  
 SKU #: **T110599**  
**Analysis: 172593**  
 Storage Temperature: Argon charged

Parameter	Limit Values	Result
Heavy metal (as Pb)	0-2 (ppm)	1.00 ppm
Iron(Fe)	0-1 (ppm)	0.60 ppm
Water by Karl Fischer	0-0.2 (%)	0.12 %
Melting point	168-172 (°C)	170.90000 °C
Purity (Titration by H <sub>2</sub> SO <sub>4</sub> )	99.7-100.3 (%)	100.07 %
UV Absorbance 290nm(40%,H <sub>2</sub> O)	0-0.5	0.02
Appearance (T110599)	White crystalline powder, Crystals, Granules and/or Chunks	White crystalline powder, Crystals, Granules and/or Chunks
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , clear colorless , 200g pass plus 300ml of water		Pass



John Su  
QA & QC Manager