

## Certificate of Analysis

Date of Testing: 2024-05-27 16:07:11  
Date of Next Testing: 2028-05-26 16:07:11  
Product Name: **Tris(hydroxymethyl)aminomethane**  
CAS Number: 77-86-1  
Specifications & Purity: Primary Standard and Buffer,  $\geq 99.9\%$  (titration)  
Lot #: E2424094  
SKU #: **T110599**  
Version: **0**  
Analysis #: **362008**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Heavy metal (as Pb)	0-2 (ppm)	1.60 ppm
Iron(Fe)	0-1 (ppm)	0.44 ppm
Water by Karl Fischer	0-0.2 (%)	0.00 %
Melting point	168-172 (°C)	171.07000 °C
Purity (Titration by H <sub>2</sub> SO <sub>4</sub> )	99.7-100.3 (%)	100.17 %
UV Absorbance 290nm(40%,H <sub>2</sub> O)	0-0.5	0.05
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