

Certificate of Analysis

Date of Testing: 2023-08-22 11:25:35
Date of Next Testing: 2027-08-21 11:25:35
Product Name: **Tris(hydroxymethyl)aminomethane**
CAS Number: 77-86-1
Specifications & Purity: Primary Standard and Buffer, $\geq 99.9\%$ (titration)
Lot #: H2312227
SKU #: **T110599**
Analysis: **267402**
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Heavy metal (as Pb)	0-2 (ppm)	0.18 ppm
Iron(Fe)	0-1 (ppm)	0.06 ppm
Water by Karl Fischer	0-0.2 (%)	0.15 %
Melting point	168-172 (°C)	171.77000 °C
Purity (Titration by H ₂ SO ₄)	99.7-100.3 (%)	99.76 %
UV Absorbance 290nm(40%,H ₂ O)	0-0.5	0.03
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 ₂ O, clear colorless, 200g pass plus 300ml of water		Pass



John Su
QA & QC Manager