

## Certificate of Analysis

Date of Testing: 2022-02-21 12:29:20  
Date of Next Testing: 2026-02-20 12:29:20  
Product Name: **Tris(hydroxymethyl)aminomethane**  
CAS Number: 77-86-1  
Specifications & Purity: Primary Standard and Buffer,  $\geq 99.9\%$  (titration)  
Lot #: B2218546  
SKU #: **T110599**  
**Analysis:** **076567**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Heavy metal (as Pb)	0-2 (ppm)	1.25 ppm
Iron(Fe)	0-1 (ppm)	0.00 ppm
Water by Karl Fischer	0-0.2 (%)	0.10 %
Melting point	168-172 (°C)	170.12000 °C
Purity (Titration by H <sub>2</sub> SO <sub>4</sub> )	99.7-100.3 (%)	99.83 %
UV Absorbance 290nm(40%,H <sub>2</sub> O)	0-0.5	0.03
Appearance (T110599)	white crystalline powder	white crystalline powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , clear colorless , 200g plus 300ml of water	pass	Pass



John Su  
QA & QC Manager