

Certificate of Analysis

Date of Testing: 2023-12-20 09:40:32

Date of Next Testing: 2027-12-19 09:40:32

Product Name: **Triethanolamine hydrochloride**

CAS Number: 637-39-8

Specifications & Purity: 99.5%

Lot #: L2318302

SKU #: **T103912**

Analysis: **302440**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Heavy metal (as Pb)	0-5 (ppm)	4.50 ppm
Water by Karl Fischer	0-0.2 (%)	0.10 %
Purity(Titration by AgNO ₃)	99.5-100.5 (%)	99.95 %
Appearance (T103912)	white crystalline powder	white crystalline powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility,Colorless Clear ,25 g /75 ml, H ₂ O	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager