

## Certificate of Analysis

Date of Testing: 2024-05-24 14:33:42  
Date of Next Testing: 2028-05-23 14:33:42  
Product Name: **Trimethylamine hydrochloride**  
CAS Number: 593-81-7  
Specifications & Purity: 98%  
Lot #: E2420547  
SKU #: **T103833**  
Version: **0**  
Analysis #: **327745**  
Storage Temperature: Argon charged, Desiccated

Parameter	Limit Values	Result
Purity(Argentmetric Titration)(calcd.on anh.substance)	97.5-102.5 (%)	99.16 %
Melting point	280-284 (°C)	281.20000 °C
Nitrogen by Elemental Analysis	14.1-14.8 (%)	14.33 %
Carbon by Elemental Analysis	36.7-37.9 (%)	36.98 %
Water by Karl Fischer	<=3(%)	2.67 %
Appearance (T103833)	White Moist Crystals, Crystalline Powder or Solid	White Moist Crystals, Crystalline Powder or Solid
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H2O	Almost transparency	almost transparency



John Su  
QA & QC Manager