

Certificate of Analysis

Date of Testing: 2025-01-07 16:24:06

Date of Next Testing: 2029-01-06 16:24:06

Product Name: **N-Z-1,3-Propanediamine hydrochloride**

CAS Number: 17400-34-9

Specifications & Purity: $\geq 98\%$

Lot #: F1702015

SKU #: **P113698**

Version: **0**

Analysis #: **458524**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity (Argentmetric Titration)	97.5-102.5 (%)	98.25 %
Hydrogen by Elemental Analysis	6.3-7 (%)	6.54 %
Nitrogen by Elemental Analysis	10.7-11.5 (%)	10.81 %
Carbon by Elemental Analysis	52.3-54 (%)	53.22 %
Melting point	183-189 (°C)	184.02800 °C
Appearance (P113698)	Colorless or White Powder or Crystals	Colorless or White Powder or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager