

Certificate of Analysis

Date of Testing: 2024-04-12 11:02:25

Date of Next Testing: 2028-04-11 11:02:25

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

CAS Number: 17400-34-9

Specifications & Purity: 98%

Lot #: F2028032

SKU #: **P113698**

Analysis: **340805**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity (Argentmetric Titration)	97.5-102.5 (%)	100.80 %
Hydrogen by Elemental Analysis	6.3-7 (%)	6.88 %
Nitrogen by Elemental Analysis	10.7-11.5 (%)	11.00 %
Carbon by Elemental Analysis	52.3-54 (%)	53.67 %
Melting point	183-189 (°C)	187.20000 °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