

Certificate of Analysis

Date of Testing: 2022-11-28 15:57:16

Date of Next Testing: 2026-11-27 15:57:16

Product Name: **N,N,N',N'-Tetramethyl-1,4-diaminobutane**

CAS Number: 111-51-3

Specifications & Purity: >98.0%

Lot #: K2223602

SKU # **N159138**

Analysis: **154287**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	99.87 %
Purity(Neutralization titration)	97.5-102.5 (%)	98.63 %
Appearance (N159138Color)	Colorless to light yellow	Colorless to light yellow
Appearance (N159138Form)	Liquid	Liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager