

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-11-24 18:41:54  
Date of Next Testing: 2026-11-23 18:41:54  
Product Name: **3,3'-Diaminodipropylamine**  
CAS Number: 56-18-8  
Specifications & Purity: >98.0%(GC)  
Lot #: K2222509  
SKU #: **D155042**  
**Analysis: 145339**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	99.80%
Density (20°C)	0.927-0.931	0.93
Refractive index n <sub>20</sub> /D	1.48-1.483	1.48
Appearance (D155042)	colorless to pale yellow liquid	colorless to pale yellow liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager