

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-12-12 09:21:13

Date of Next Testing: 2026-12-11 09:21:13

Product Name: **4-Aminomorpholine**

CAS Number: 4319-49-7

Specifications & Purity: $\geq 98\%$ (GC)

Lot #: L2208246

SKU #: **A151029**

Version: **0**

Analysis #: **158419**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Density (20°C)	1.057-1.06	1.06
Refractive index n _{20/D}	1.475-1.48	1.48
Purity(GC)	98-100 (%)	98.03 %
Appearance (A151029)	Colorless to light yellow liquid	Colorless to light 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