

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

# Certificate of Analysis

Date of Testing: 2023-11-24 14:37:12

Date of Next Testing: 2027-11-23 14:37:12

Product Name: **4-Aminomorpholine**

CAS Number: 4319-49-7

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

Lot #: K2313023

SKU #: **A151029**

Version: **0**

Analysis #: **002946**

Storage Temperature: Argon charged

| Parameter                          | Limit Values                     | Result                           |
|------------------------------------|----------------------------------|----------------------------------|
| Density (20°C)                     | 1.057-1.06                       | 1.06                             |
| Refractive index n <sub>20/D</sub> | 1.475-1.48                       | 1.48                             |
| Purity(GC)                         | 98-100 (%)                       | 98.02 %                          |
| Appearance (A151029)               | Colorless to light yellow liquid | Colorless to light yellow liquid |
| Proton NMR spectrum                | Conforms to Structure            | Conforms to Structure            |



John Su  
QA & QC Manager