

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-12-27 13:14:14  
Date of Next Testing: 2028-12-26 13:14:14  
Product Name: **N-Methyl morpholine**  
CAS Number: 109-02-4  
Specifications & Purity:  $\geq 99\%$ (GC)  
Lot #: L2417283  
SKU #: **M104642**  
Version: **0**  
Analysis #: **455078**  
Storage Temperature: Protected from light, Room temperature

| Parameter                          | Limit Values          | Result                |
|------------------------------------|-----------------------|-----------------------|
| Density (20°C)                     | 0.917-0.922           | 0.92000               |
| Water by Karl Fischer              | 0-0.5 (%)             | 0.05800 %             |
| Refractive index n <sub>20/D</sub> | 1.433-1.437           | 1.43560               |
| Purity(GC)                         | 99-100 (%)            | 99.78200 %            |
| Appearance (M104642)               | Colorless Liquid      | Colorless liquid      |
| Infrared spectrum                  | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager