

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-07-27 16:35:17  
Date of Next Testing: 2027-07-26 16:35:17  
Product Name: **N-Methyl morpholine**  
CAS Number: 109-02-4  
Specifications & Purity: purified by redistillation , 99.5%  
Lot #: G2321885  
SKU #: **M104643**  
**Analysis:** **251949**  
Storage Temperature: Protected from light, Room temperature

Parameter	Limit Values	Result
Refractive index n <sub>20</sub> /D	1.434-1.437	1.44
Water by Karl Fischer	0-0.5 (%)	0.08 %
Purity(GC)	99.5-100 (%)	99.92 %
Density (20°C)	0.917-0.922	0.92
Appearance (M104643)	Colorless Liquid	Colorless liquid
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su  
QA & QC Manager