

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-10-30 17:30:16  
Date of Next Testing: 2027-10-20 17:30:16  
Product Name: **4-Methylmorpholine N-oxide (NMO)**  
CAS Number: 7529-22-8  
Specifications & Purity: 50 wt. % in H<sub>2</sub>O  
Lot #: A2426574  
SKU #: **M105979**  
Version: **0**  
Analysis #: **593654**  
Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Purity(NonaqueousTitration)	50-55 (%)	51.20%
Density (20°C)	1.11-1.13	1.13
Refractive index n <sub>20</sub> /D	1.411-1.431	1.42
Appearance (M105979)	Colorless to Yellow Liquid	Colorless to Yellow Liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager