

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-09-20 10:30:25

Date of Next Testing: 2024-09-09 10:30:25

Product Name: **4-Methylmorpholine N-oxide (NMO)**

CAS Number: 7529-22-8

Specifications & Purity: 50 wt. % in H<sub>2</sub>O

Lot #: I2215668

SKU # **M105979**

Version **0**

**Analysis #:** **122223**

Storage Temperature: Store at 2-8°C

| Parameter                          | Limit Values               | Result                     |
|------------------------------------|----------------------------|----------------------------|
| Purity(NonaqueousTitration)        | 50-55 (%)                  | 50.47000 %                 |
| Density (20°C)                     | 1.11-1.13                  | 1.12000                    |
| Refractive index n <sub>20/D</sub> | 1.411-1.431                | 1.42130                    |
| 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      |



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QA & QC Manager