

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-03-07 13:06:35

Date of Next Testing: 2027-03-06 13:06:35

Product Name: **4-(3-Chloropropyl)morpholine**

CAS Number: 7357-67-7

Specifications & Purity:  $\geq 95\%$

Lot #: C2303378

SKU #: **C494550**

Version: **1**

Analysis #: **195586**

Storage Temperature: Store at 2-8°C, Argon charged

| Parameter                           | Limit Values                           | Result                                 |
|-------------------------------------|----------------------------------------|----------------------------------------|
| Purity(GC)                          | 95-100 (%)                             | 98.84400 %                             |
| Refractive index n <sub>20</sub> /D | 1.4705-1.4765                          | 1.47390                                |
| Appearance(C494550)                 | Colorless to Light yellow clear liquid | Colorless to Light yellow clear liquid |
| NMR Spectrum 1H                     | Conforms to Structure                  | Conforms to Structure                  |



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QA & QC Manager