

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-12-20 14:03:31

Date of Next Testing: 2027-12-19 14:03:31

Product Name: **4-Morpholinylcarbonyl Chloride**

CAS Number: 15159-40-7

Specifications & Purity:  $\geq 97\%$

Lot #: L2308225

SKU #: **M157857**

Version: **0**

**Analysis #:** **296026**

Storage Temperature: Room temperature

| Parameter                           | Limit Values               | Result                     |
|-------------------------------------|----------------------------|----------------------------|
| Purity(GC)                          | 97-100 (%)                 | 99.40000 %                 |
| Refractive index n <sub>20</sub> /D | 1.498-1.5                  | 1.49910                    |
| Appearance (M157857)                | Colorless to Yellow Liquid | Colorless to Yellow Liquid |
| Proton NMR spectrum                 | Conforms to Structure      | Conforms to Structure      |



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QA & QC Manager