

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-02-24 17:50:52

Date of Next Testing: 2027-02-23 17:50:52

Product Name: **1-Chloroethyl chloroformate**

CAS Number: 50893-53-3

Specifications & Purity: 98%

Lot #: B2317708

SKU #: **C100655**

**Analysis:** **175250**

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

| Parameter                          | Limit Values              | Result                    |
|------------------------------------|---------------------------|---------------------------|
| Density (20°C)                     | 1.312-1.316               | 1.31                      |
| Water by Karl Fischer              | 0-0.1 (%)                 | 0.03 %                    |
| Purity(GC)                         | 98-100 (%)                | 99.62 %                   |
| Refractive index n <sub>20/D</sub> | 1.422-1.425               | 1.42                      |
| Appearance (C100655)               | colorless to brown liquid | colorless to brown liquid |
| Proton NMR spectrum                | Conforms to structure     | Conforms to Structure     |

A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager