

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

# Certificate of Analysis

Date of Testing: 2023-06-07 10:11:01

Date of Next Testing: 2026-06-06 10:11:01

Product Name: **3-(Chlorosulfonyl)-2-thiophenecarboxylic Acid Methyl Ester**

CAS Number: 59337-92-7

Specifications & Purity:  $\geq 95\%$

Lot #: E2330362

SKU # **C467906**

Version **1**

**Analysis #:** **216288**

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

| Parameter           | Limit Values                                       | Result                                             |
|---------------------|----------------------------------------------------|----------------------------------------------------|
| Purity(HPLC area)   | 95-100 (%)                                         | 97.46500 %                                         |
| Appearance(C467906) | White to Tan to Orange to Green Powder or Crystals | White to Tan to Orange to Green Powder or Crystals |
| NMR Spectrum 1H     | Conforms to Structure                              | Conforms to Structure                              |
| Infrared spectrum   | Conforms to Structure                              | Conforms to Structure                              |



John Su  
QA & QC Manager