

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-07-11 15:25:15

Date of Next Testing: 2027-07-11 15:25:15

Product Name: **2-Chloroacetoacetic Acid Methyl Ester**

CAS Number: 4755-81-1

Specifications & Purity:  $\geq 95\%$ (GC)

Lot #: H1709004

SKU #: **M135839**

Version **0**

Analysis #: **539081**

| Parameter                          | Limit Values               | Result                     |
|------------------------------------|----------------------------|----------------------------|
| Density (20°C)                     | 1.248-1.255                | 1.25                       |
| Refractive index n <sub>20/D</sub> | 1.445-1.449                | 1.45                       |
| Purity(GC)                         | 95-100 (%)                 | 95.00 %                    |
| Appearance (M135839)               | Colorless to Yellow Liquid | Colorless to Yellow 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