

## Certificate of Analysis

Date of Testing: 2025-06-16 16:35:31  
Date of Next Testing: 2029-06-15 16:35:31  
Product Name: **Ethyl 4-Chloroacetoacetate**  
CAS Number: 638-07-3  
Specifications & Purity:  $\geq 95\%$ (GC)  
Lot #: F2503292  
SKU #: **E156137**  
Version: **0**  
Analysis #: **391102**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(GC)	95-100 (%)	98.00%
Refractive index n <sub>20</sub> /D	1.45-1.454	1.45
Appearance (E156137)	Colorless to Yellow Liquid	Colorless to Yellow Liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager