

## Certificate of Analysis

Date of Testing: 2023-09-08 15:18:43  
Date of Next Testing: 2027-09-07 15:18:43  
Product Name: **Ethyl 4-Chloroacetoacetate**  
CAS Number: 638-07-3  
Specifications & Purity: >95.0%(GC)  
Lot #: L1906121  
SKU #: **E156137**  
**Analysis:** **273571**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(GC)	95-100 (%)	95.63%
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