

## Certificate of Analysis

Date of Testing: 2023-04-17 11:45:10  
Date of Next Testing: 2027-04-16 11:45:10  
Product Name: **Ethyl 2-chloroacetoacetate**  
CAS Number: 609-15-4  
Specifications & Purity: 96%  
Lot #: D2310393  
SKU #: **E124653**  
**Analysis:** **215136**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Density (20°C)	1.175-1.185	1.18
Refractive index n <sub>20</sub> /D	1.438-1.448	1.44
Purity(GC)	95-100 (%)	97.77%
Appearance (E124653)	colorless to brown liquid	colorless to brown liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager