

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-07-26 17:29:47  
Date of Next Testing: 2027-07-25 17:29:47  
Product Name: **Ethyl 4,4-difluoroacetoacetate**  
CAS Number: 352-24-9  
Specifications & Purity: 95%  
Lot #: G23211279  
SKU #: **E598523**  
**Analysis:** **256201**  
Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Purity(GC)	95-100 (%)	96.96 %
Refractive index n <sub>20</sub> /D	1.404-1.409	1.41
Appearance(E598523)	Colorless to light yellow liquid	Colorless to light yellow liquid
NMR Spectrum 1H	Conforms to structure	Conforms to Structure



John Su  
QA & QC Manager