

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-01-04 15:49:33  
Date of Next Testing: 2026-01-03 15:49:33  
Product Name: **Ethyl 4,4-difluoroacetoacetate**  
CAS Number: 352-24-9  
Specifications & Purity: 98%  
Lot #: C2222064  
SKU #: **E137193**  
**Analysis:** **311013**  
Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	98.62 %
Refractive index n <sub>20</sub> /D	1.404-1.409	1.41
Appearance (E137193)	Colorless to light yellow liquid	Colorless to light yellow liquid
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su  
QA & QC Manager