

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-06-29 17:09:50
 Date of Next Testing: 2027-06-28 17:09:50
 Product Name: **DL-Apple Acid Diethyl Ester**
 CAS Number: 7554-12-3
 Specifications & Purity: $\geq 98\%$ (GC)
 Lot #: F2313935
 SKU #: **D155732**
 Version: **0**
 Analysis #: **230230**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Density (20°C)	1.127-1.13	1.12800
Purity(GC)	98-100 (%)	99.70000 %
Refractive index n _{20/D}	1.433-1.436	1.43600
Appearance (D155732)	Colorless to light yellow liquid	Colorless to light yellow liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager