

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-07-11 11:36:08
 Date of Next Testing: 2029-07-10 11:36:08
 Product Name: **Diethyl D-(-)-Tartrate**
 CAS Number: 13811-71-7
 Specifications & Purity: $\geq 99\%$
 Lot #: I2122071
 SKU #: **D119332**
 Version: **0**
 Analysis #: **540014**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}$	-8.1--7.5 (°)	-8.03680 °
Refractive index $n_{20/D}$	1.446-1.448	1.44610
Specific gravity	1.206-1.21	1.20680
Purity(GC)	99-100 (%)	99.00700 %
Appearance (D119332)	Colorless to light yellow liquid	Colorless to light yellow liquid
Color test (10APHA)	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager