

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-07-29 13:15:52
 Date of Next Testing: 2027-07-28 13:15:52
 Product Name: **(S)-(+)-1,2-Propanediol**
 CAS Number: 4254-15-3
 Specifications & Purity: $\geq 98\%$
 Lot #: G23201012
 SKU #: **P101750**
 Version: **0**
 Analysis #: **119530**
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Refractive index n _{20/D}	1.431-1.434	1.43270
Specific Rotation [α] _{20/D}	14.5-18.5 (°)	17.23000°
Purity(GC)	98-100 (%)	99.53400 %
Appearance (P101750)	Colorless to light yellow to orange liquid	Colorless to light yellow to orange liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager