

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-12-09 17:55:42
 Date of Next Testing: 2026-12-08 17:55:42
 Product Name: **(R)-(-)-1,2-Propanediol**
 CAS Number: 4254-14-2
 Specifications & Purity: $\geq 99\%$
 Lot #: B1919098
 SKU #: **P101749**
 Version: **2**
 Analysis #: **165704**
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Refractive index n _{20/D}	1.431-1.434	1.43200
Purity(GC)	99-100 (%)	99.10500 %
Specific Rotation [α] _{20/D}	-18--15 (°)	-16.50000 °
Density (20°C)	1.035-1.039	1.03600
Appearance (P101749)	Colorless Liquid	Colorless liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager