

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-05-15 09:33:57  
Date of Next Testing: 2027-05-14 09:33:57  
Product Name: **(S)-(+)-1,2-Propanediol**  
CAS Number: 4254-15-3  
Specifications & Purity: 98%  
Lot #: 11502064  
SKU #: **P101750**  
**Analysis:** **223293**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Refractive index n <sub>20</sub> /D	1.431-1.434	1.43
Specific Rotation [α] <sub>20</sub> /D	14.5-18.5 (°)	16.20°
Purity(GC)	98-100 (%)	99.40%
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