

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-09-08 10:03:34
 Date of Next Testing: 2026-09-07 10:03:34
 Product Name: (S)-(+)-3-Chloro-1,2-propanediol
 CAS Number: 60827-45-4
 Specifications & Purity: ≥97%
 Lot #: I2201268
 SKU #: C106059
 Version: 1
 Analysis #: 101586
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Refractive index n ₂₀ /D	1.478-1.482	1.47970
Enantiometric Excess	97-100 (%)	98.99000 %
Specific Rotation [α] ₂₀ /D(c=2 in H ₂ O)	7.5-10.5 (°)	8.15400 °
Density (25°C)	1.321-1.324	1.32300
Purity(GC)	97-100 (%)	99.20600 %
Appearance (C106059)	Colorless to Yellow Liquid	Colorless to Yellow Liquid
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager