

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-06-11 20:39:19
Date of Next Testing: 2027-06-10 20:39:19
Product Name: **(S)-(+)-3-Chloro-1,2-propanediol**
CAS Number: 60827-45-4
Specifications & Purity: $\geq 97\%$
Lot #: F23051034
SKU #: **C106059**
Version: **1**
Analysis #: **017101**

Parameter	Limit Values	Result
Refractive index n ₂₀ /D	1.478-1.482	1.48
Enantiometric Excess	97-100 (%)	97.12 %
Specific Rotation [α] ₂₀ /D(c=2 in H ₂ O)	7.5-10.5 (°)	8.27°
Purity(GC)	97-100 (%)	97.09 %
Density (25°C)	1.321-1.324	1.32
Appearance (C106059)	Colorless to Yellow Liquid	Colorless to Yellow Liquid
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager