

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-11-05 14:57:38  
Date of Next Testing: 2026-11-04 14:57:38  
Product Name: **(R)-(-)-3-Chloro-1,2-propanediol**  
CAS Number: 57090-45-6  
Specifications & Purity:  $\geq 97\%$   
Lot #: K2201287  
SKU #: **C106058**  
Version: **1**  
Analysis #: **120630**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Optical purity(ee)	98-100 (%)	99.30000 %
Refractive index n <sub>20</sub> /D	1.479-1.481	1.48100
Density (20°C)	1.321-1.325	1.32300
Purity(GC)	97-100 (%)	98.02000 %
Specific Rotation [α] <sub>20</sub> /D(c=Neat)	-1.2--0.8 (°)	-0.80100 °
Appearance (C106058)	Colorless to Yellow to Orange Liquid	Colorless to Yellow to Orange Liquid
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su  
QA & QC Manager