

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-06-20 10:33:56
 Date of Next Testing: 2027-06-19 10:33:56
 Product Name: (R)-(-)-3-Chloro-1,2-propanediol
 CAS Number: 57090-45-6
 Specifications & Purity: $\geq 97\%$
 Lot #: F2305999
 SKU #: C106058
 Version: 1
 Analysis #: 120630
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Optical purity(ee)	98-100 (%)	99.30000 %
Refractive index n _{20/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] _{20/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