

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-12-13 16:00:48
 Date of Next Testing: 2027-12-12 16:00:48
 Product Name: (R)-(-)-3-Chloro-1,2-propanediol
 CAS Number: 57090-45-6
 Specifications & Purity: $\geq 97\%$
 Lot #: D1606014
 SKU #: C106058
 Version: 1
 Analysis #: 304099
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(GC)	97-100 (%)	99.15400 %
Optical purity(ee)	98-100 (%)	98.60000 %
Specific Rotation $[\alpha]_{20/D}(c=\text{Neat})$	-1.2--0.8 (°)	-1.10000 °
Refractive index $n_{20/D}$	1.479-1.481	1.48050
Density (20°C)	1.321-1.325	1.32200
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