

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-02-06 20:08:55
 Date of Next Testing: 2027-02-05 20:08:55
 Product Name: **(R)-4-Chloro-3-hydroxybutyric Acid Ethyl Ester**
 CAS Number: 90866-33-4
 Specifications & Purity: $\geq 95\%$
 Lot #: B2303134
 SKU #: **C108078**
 Version: **0**
 Analysis #: **150935**
 Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=\text{Neat})$	11-18 (°)	12.12940 °
Density (20°C)	1.188-1.192	1.19100
Refractive index $n_{20/D}$	1.451-1.455	1.45290
Purity(GC)	95-100 (%)	95.19000 %
Appearance (C108078)	Colorless to Yellow Liquid	Colorless to Yellow Liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager