

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-02-13 11:04:01
 Date of Next Testing: 2027-02-12 11:04:01
 Product Name: **(R)-4-Chloro-3-hydroxybutyric Acid Ethyl Ester**
 CAS Number: 90866-33-4
 Specifications & Purity: $\geq 95\%$
 Lot #: E1907057
 SKU #: **C108078**
 Version: **0**
 Analysis #: **186571**
 Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D}(c=\text{Neat})$	11-18 (°)	15.56200°
Density (20°C)	1.188-1.192	1.19000
Refractive index $n_{20/D}$	1.451-1.455	1.45430
Purity(GC)	95-100 (%)	95.07200 %
Appearance (C108078)	Colorless to Yellow Liquid	Colorless to Yellow Liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager