

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-05-28 15:13:26  
Date of Next Testing: 2026-05-28 15:13:26  
Product Name: **(R)-3-Hydroxyisobutyric Acid Methyl Ester**  
CAS Number: 72657-23-9  
Specifications & Purity:  $\geq 98.0\%$ (GC)  
Lot #: H2209598  
SKU #: **R136025**  
Version: **0**  
Analysis #: **354001**  
Storage Temperature: Store at  $-20^{\circ}\text{C}$

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20}^D(c=4 \text{ in MeOH})$	-29--22 ( $^{\circ}$ )	-26.24 $^{\circ}$
Enantiometric Excess	98-100 (%)	98.90%
Purity(GC)	98-100 (%)	98.00%
Appearance (R136025)	Colorless to light yellow liquid	Colorless to light yellow liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager