

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-04-14 13:31:19
 Date of Next Testing: 2028-04-03 13:31:19
 Product Name: (S)-(+)- α -Methoxy- α -trifluoromethylphenylacetyl chloride
 CAS Number: 20445-33-4
 Specifications & Purity: $\geq 98\%$ (GC)
 Lot #: I2206863
 SKU # M113469
 Version 0
 Analysis #: 689432
 Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Specific Rotation [a] _D ²⁰ (c=2 in Toluene)	145-152 (°)	145.37800 °
Refractive index n _D ²⁰	1.467-1.47	1.46900
Density (20°C)	1.354-1.357	1.35580
Purity(GC)	98-100 (%)	99.42100 %
Appearance (M113469)	Colorless to light yellow liquid	Colorless to light yellow liquid



John Su
QA & QC Manager