

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-09-13 16:14:28
 Date of Next Testing: 2024-09-02 16:14:28
 Product Name: (S)-(+)- α -Methoxy- α -trifluoromethylphenylacetyl chloride
 CAS Number: 20445-33-4
 Specifications & Purity: $\geq 98\%$ (GC)
 Lot #: I2206866
 SKU # M113469
 Version 0
 Analysis #: 123797
 Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Refractive index n ₂₀ /D	1.467-1.47	1.47000
Density (20°C)	1.354-1.357	1.35500
Purity(GC)	98-100 (%)	99.90000 %
Specific Rotation [α] ₂₀ /D(c=2 in Toluene)	145-152 (°)	146.25000 °
Appearance (M113469)	Colorless to light yellow liquid	Colorless to light yellow liquid



John Su
QA & QC Manager