

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-12-12 16:24:45
 Date of Next Testing: 2026-12-02 16:24:45
 Product Name: (S)-(+)- α -Methoxy- α -trifluoromethylphenylacetyl chloride
 CAS Number: 20445-33-4
 Specifications & Purity: $\geq 98\%$ (GC)
 Lot #: L2409090
 SKU #: M113469
 Version: 0
 Analysis #: 267598
 Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Density (20°C)	1.354-1.357	1.35500
Purity(GC)	98-100 (%)	99.50000 %
Specific Rotation $[\alpha]_{20/D}(c=2 \text{ in Toluene})$	145-152 (°)	145.30000 °
Refractive index $n_{20/D}$	1.467-1.47	1.46800
Appearance (M113469)	Colorless to light yellow liquid	Colorless to light yellow liquid



John Su
QA & QC Manager