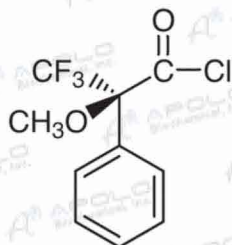


CERTIFICATE OF ANALYSIS

Product Name: (S)-(+)-α-Methoxy-α-(trifluoromethyl)phenylacetyl Chloride

Chemical Structure:



Lot Number: IASMI1110322TCI
CAT Number: APL-WCPM-0020445
CAS Registry Number: 20445-33-4
Manufacture Date: 03/2022
Expiry Date: 03/2025
Molecular Formula: C₁₀H₈ClF₃O₂
Molecular Weight: 252.62
Storage: 0-10°C, Store under inert gas

Analysis Data

Item	Specification	Results
Appearance	Colorless to Almost colorless clear liquid	Almost colorless clear liquid
Purity (GC)	≥ 98.0 %	99.5 %
Optical purity (GC)	≥ 99.0 ee%	99.8 ee%
Functionality test	To pass test	Conforms

* Situations to avoid: moisture sensitive, heat sensitive.

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

Jennifer LaBrecque

Jennifer LaBrecque 03/2022
Quality Assurance Manager

Conclusion: The above product meets the specifications of APOLO