

Certificate of Analysis

Date of Testing: 2025-03-14 14:35:43
 Date of Next Testing: 2027-03-04 14:35:43
 Product Name: **(1R)-(-)-10-Camphorsulfonyl chloride**
 CAS Number: 39262-22-1
 Specifications & Purity: $\geq 97\%$
 Lot #: I2114119
 SKU # **C102453**
 Version **0**
 Analysis #: **481403**
 Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Melting point	66-68 (°C)	66.30000 °C
Purity(Titration by AgNO ₃)	96.5-103.5 (%)	100.15 %
Specific Rotation [α] _{20/D} (c=1 in CHCL ₃)	-33--26 (°)	-30.52 °
Appearance (C102453)	white to tan powder,crystals and/or chunks	white to tan powder,crystals and/or chunks
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in Toluene	almost transparency	almost transparency



John Su
QA & QC Manager