

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-07-18 14:10:30

Date of Next Testing: 2026-07-08 14:10:30

Product Name: (1S)-(+)-10-Camphorsulfonyl chloride

CAS Number: 21286-54-4

Specifications & Purity: ≥97%

Lot #: G2412154

SKU #: C102454

Version: 3

Analysis #: 340337

Storage Temperature: Store at -20°C, Argon charged

Parameter	Limit Values	Result
Melting point	65-69 (°C)	66.57000 °C
Purity(Titration by AgNO3)	96.5-103.5 (%)	99.49000 %
Specific Rotation [α] _{20/D} (c=1 CHCL3)	29-35 (°)	30.82800 °
Appearance (C102454)	White to Almost white to Light Beige and Light Brown Powder or Crystals	White to Almost white to Light Yellow and Light Beige and Light Brown Powder or Crystals
Solubility in Toluene	almost transparency	almost transparency
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager