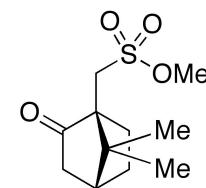


CERTIFICATE OF ANALYSIS

1. Identification

Catalogue Number M294690 Lot Number 11-RCD-92-2

Product Name
Methyl (1S)-(+)-10-Camphorsulfonate

StructureSynonyms

7,7-Dimethyl-2-oxo-bicyclo[2.2.1]heptane-1-methanesulfonic Acid Methyl Ester; (1S,4R)-10-Camphorsulfonic Acid Methyl Ester; (1S)-7,7-dimethyl-2-oxo-bicyclo[2.2.1]heptane-1-methanesulfonic Acid Methyl Ester;

CAS Number

62319-13-5

Solubility

DMSO (Slightly), Methanol (Slightly)

Shipping Condition

This Product Is Stable To Be Shipped At Room Temperature

Molecular FormulaC₁₁H₁₈O₄SSource of Product

Synthetic

Long Term Storage Conditions

4°C

Molecular Weight

246.32

Purity

97%

2. Warnings

3. Analytical Information

<u>Tests</u>	<u>Specifications</u>	<u>Results</u>
Appearance	White to Off-White Solid	White to Off-White Solid
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms

Additional Information

N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of $\pm 2\%$. Isotopic purity is based on mass distribution observed.

The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

<u>Reviewed by</u>	<u>Reviewed by</u>	<u>C of A Approved by</u>	<u>Test Date</u>	<u>Retest Date</u>
			10/4/2022	10/2/2029

Henry Tieu
Product Quality Specialist

Toni Rantanen
Manager, Quality Assurance

Chanell Chu
Jr. Quality Assurance