



CERTIFICATE OF ANALYSIS

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1. Identification

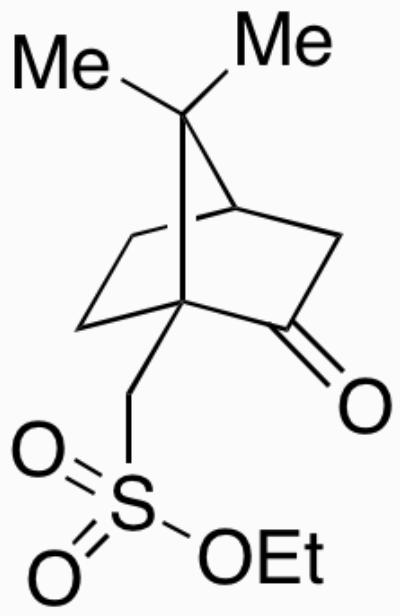
Catalogue Number: C175055

CAS Number: 154335-57-6

Product: (1S)-(+)-10-Camphorsulfonic Acid Ethyl Ester

Synonym: 7,7-Dimethyl-2-oxo-bicyclo[2.2.1]heptane-1-methanesulfonic Acid Ethyl Ester; Ethyl ((1S,4R)-7,7-Dimethyl-2-oxobicyclo[2.2.1]heptan-1-yl)methanesulfonate; 10-Camphorsulfonic Acid Ethyl Ester

Structure:



Molecular Formula:

C₁₂H₂₀O₄S

Molecular weight:

260.35

Source of Product:

Synthetic

Solubility:

Chloroform (Sparingly),
Methanol (Sparingly)

Lot Number: 4-RVK-176-2

Purity: 94%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Low-Melting Solid	White to Off-White Low-Melting Solid
GC Purity	Report Result	100.00%
NMR	Conforms to Structure	Conforms
C 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 ± 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

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Sarjeet Kaur	Toni Rantanen	Chanell Chu	7/18/2023	7/16/2027

