



CERTIFICATE OF ANALYSIS

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1. Identification

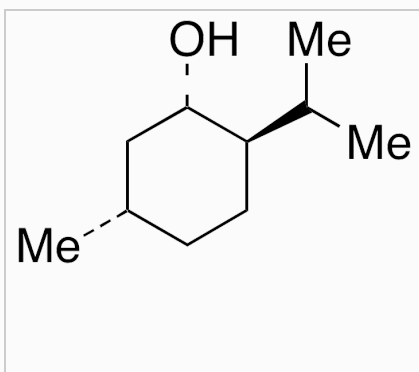
Catalogue Number: M218885

CAS Number: 15356-60-2

Product: (1S,2R,5S)-(+)-Menthol

Synonym: (1S,2R,5S)-5-Methyl-2-(1-methylethyl)cyclohexanol; [1S-(1 α ,2 β ,5 α)]-5-Methyl-2-(1-methylethyl)cyclohexanol; (1S,3S,4R)-(+)-Menthol; (+)-Menthol; (1S,2R,5S)-(+)-Menthol; (1S,2R,5S)-Menthol; d-Menthol;

Structure:



Molecular Formula:

C₁₀H₂₀O

Molecular weight:

156.27

Source of Product:

N/A

Solubility:

Chloroform (Sparingly),
Methanol (Sparingly)

Lot Number: 2-FGD-608-1

Purity: 98%

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

Storage Condition: 4°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Colourless to Off-White Oil to Solid	White to Off-White Solid
NMR	Conforms to Structure	Conforms
C NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 77.24, %H: 12.88
GC Purity	Report Result	99.22%
MS	Conforms to Structure	Conforms
Specific Rotation	Report Result	+42.1° (c = 0.4, Chloroform)

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

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Meenakshi Sharma	Toni Rantanen	Chanell Chu	8/10/2023	8/8/2027

