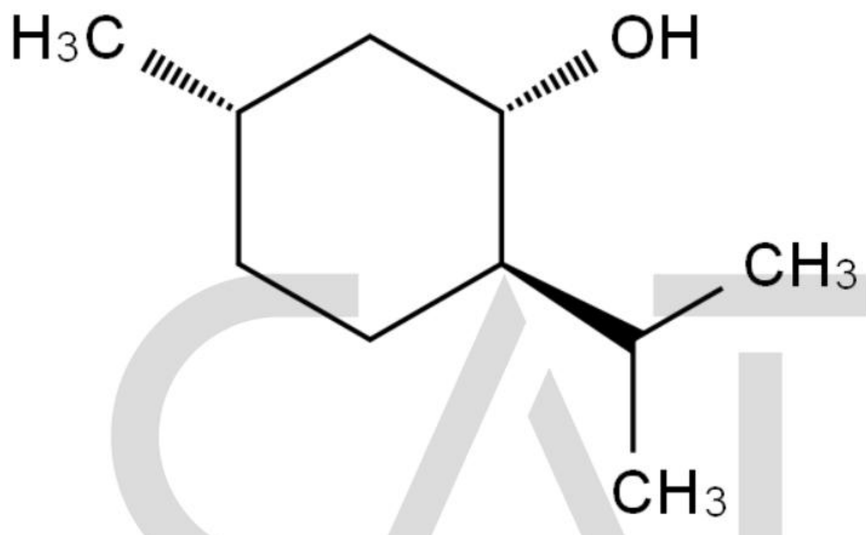
Certificate of Analysis

Reference Material & Standard

Product Name:	(+)-Menthol	**Catalogue Number:**	CCPE901595
Synonyms:	N/A	**Lot Number:**	1105-RH-0108
CAS Number:	15356-60-2	**Expiry Date:**	Nov 04, 2030
Molecular Formula:	$C_{10}H_{20}O$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	156.27	**Shipping Condition:**	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	GCMS&HNMR	Confirmed
Purity	GC	100.000%
Water Content	Karl Fischer	0.2634%
Assay	Mass Balance	99.7%
Uncertainty		±0.2%

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Comment:

1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Water Content) * Purity GC (%) /100%*
Water Content is considered as absolute effect, GC purity is considered as relative effect.
2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by: Alice Date: Nov 05, 2026

Reviewed by: Lisa Date: Nov 06, 2026

Approved by General Manager: David Date: Nov 06, 2026

CATO Research Chemicals Inc.