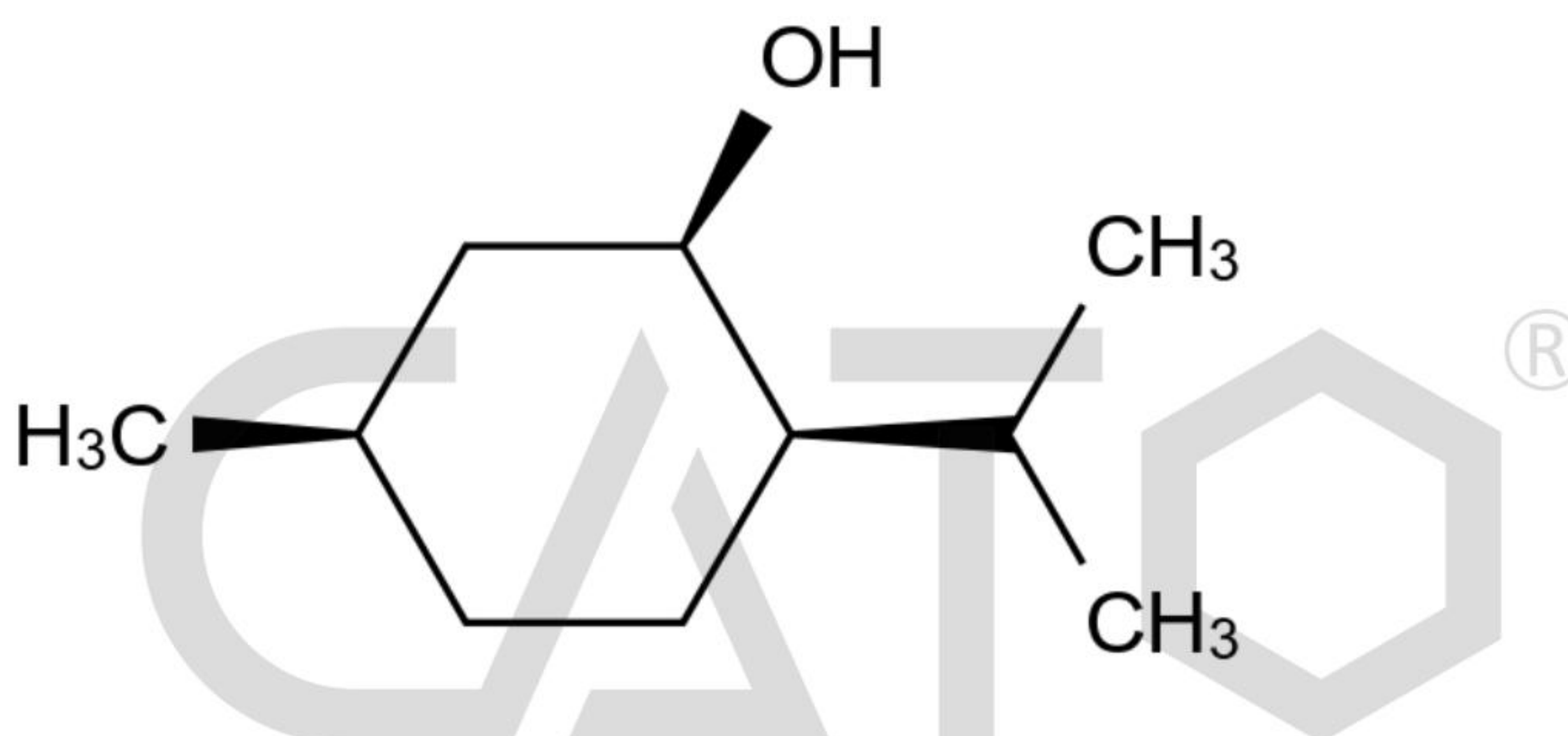


Certificate of Analysis

Reference Material & Standard

Product Name:	(1R,2R,5R)-Isomenthol	Catalogue Number:	C1828043
Synonyms:	N/A	Lot Number:	0809-RF-0049
CAS Number:	20752-34-5	Expiry Date:	Aug 12, 2027
Molecular Formula:	C ₁₀ H ₂₀ O	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	156.27	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Semi-solid
Identification	GCMS&HNMR	Confirmed
Purity	HPLC	99.7733%
Water Content	Karl Fischer	6.687%
Residual Solvents	NMR	Not detected in NMR
Assay		93.1%

Comment:

The calculation of the 100% method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Water Content - Residual Solvents) * Purity HPLC (%) / 100%

Water Content and Residual Solvents are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Lily

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Aug 14, 2024

Date: Aug 14, 2024

Date: Aug 14, 2024

