

Certificate of Analysis

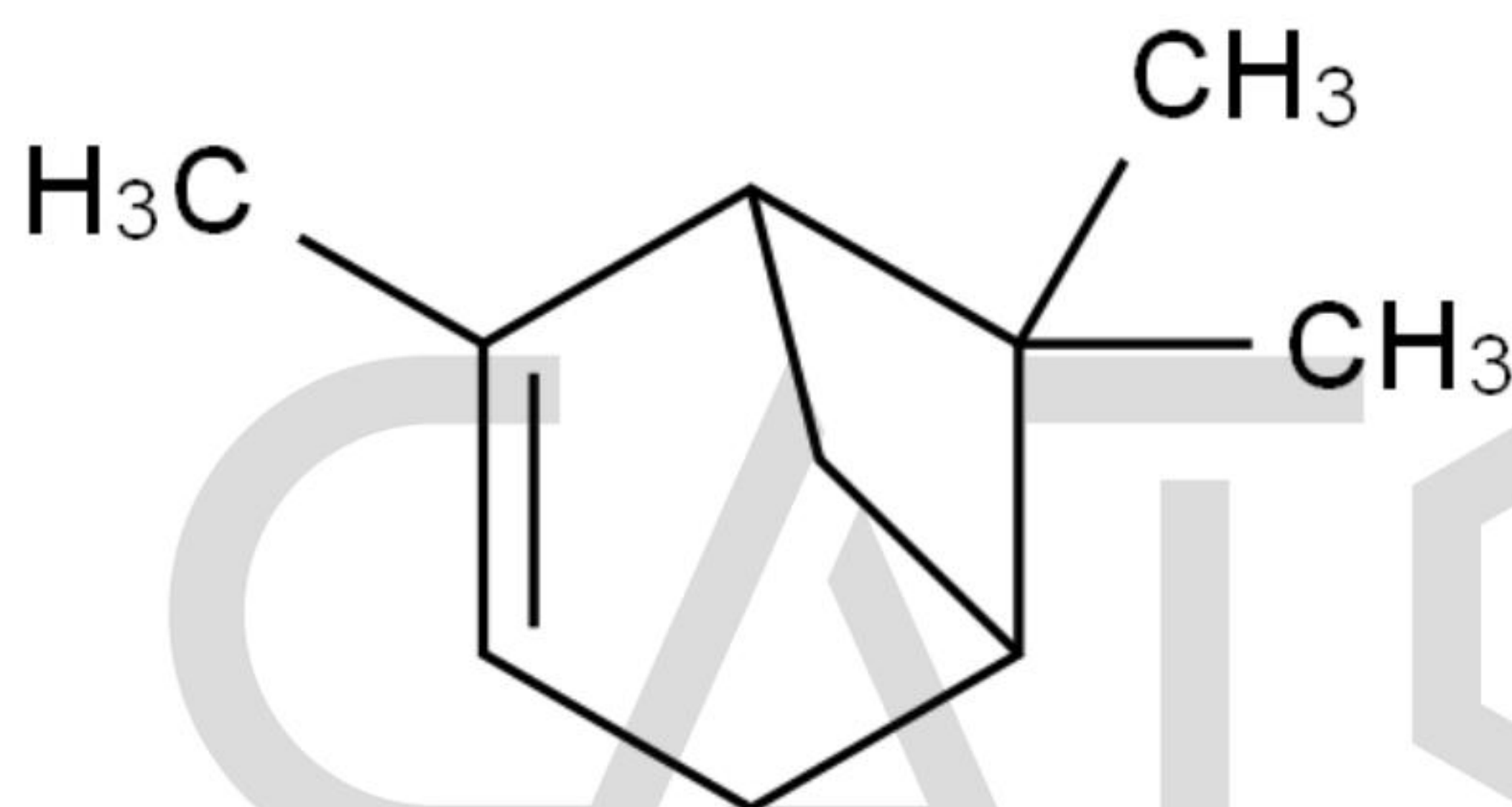
Reference Material & Standard

Product Name:	alpha-Pinene	Catalogue Number:	CCHM700524
Synonyms:	N/A	Lot Number:	0204-RF-0077
CAS Number:	80-56-8	Expiry Date:	Feb 03, 2028
Molecular Formula:	C ₁₀ H ₁₆	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	136.23	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	GCMS&CNMR&HNMR	Confirmed
Purity	GC	97.4%
Assay	qNMR	97.3%
Uncertainty		±0.5%

Comment:

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:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Aug 21, 2025

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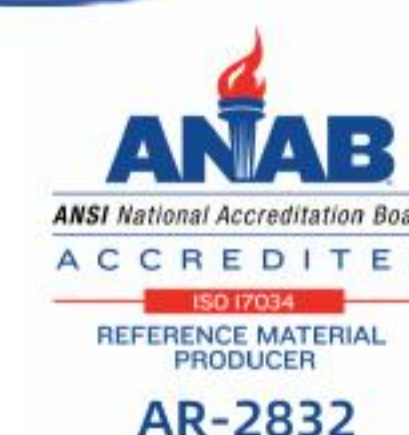
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Page 1 of 9



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