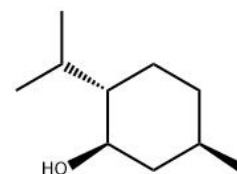


Technical Data Sheet

L-Menthol

Compound Information

Product Name:	L-Menthol
CAS No.:	2216-51-5
Molecular Formula:	C ₁₀ H ₂₀ O
Molecular Weight:	156.27
Storage:	Store at RT
Revision Date:	2026-04-15



Analytical Information

Tests	Specifications
Purity by GC	98 - 102%
Appearance	Prismatic or acicular shiny large crystals
Odor	at 10.00 % in dipropylene glycol. peppermint cooling mentholic minty
Melting Point	41-45 °C (lit.)
Specific Rotation	[α] _{D20} = -45 to -51 ° (L-Menthol), [α] _{D20} = -2 to +2 ° (DL-Menthol)
Oxidizable Substances	Readily oxidizable substance in DL-Menthol : Purpule coloration of KMnO ₄ solution should persist for NLT 5 min.
Non-Volatile Matter	≤ 0.05%
Related Substances	Individual impurities : ≤ 0.3%, Total impurities : ≤ 2%
Specification Reference	USP
Additional Information	Identification A, B : To pass test, Congealing range of DL-Menthol : DL-Menthol should congeal at temperature between 27 -28 °C. After addition of few mg of dried DL-Menthol to the congealed mass, the temperature should rise to 30.5 to 32.0 °C., For Laborat
MS	Pass test
¹H NMR	Pass test
¹³C NMR	Pass test
IR	Pass test
Raman	Pass test

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