

Certificate of Analysis

Product	MENTHOL CRYSTALS
Lot #	0511/511
Date of Manufacture	01/2022
Best 'Use By' Date	12/2024

Specified Test	Results	Specifications
Description	Complied Visual inspection	Colourless, hexagonal crystal. usually needle-like or infused masses or crystalline powder. Has a peppermint like odor.
Solubility	Complied Visual inspection	Slightly soluble in water, very soluble in alcohol, either and in solvent hexane, freely soluble in glacial acetic acid, in mineral oil, and in fixed and volatile oil.
Identification -A-	Complied	The retention time of the major peak of the sample solution corresponds to that of the menthol peak of the standard solution, as obtained in the assay.
Specific Rotation (100 mg/ml in alcohol)	-50.2 ⁰	-45.0 ⁰ to 51.0 ⁰
Melting Point of L-Menthol	42.8°C	41°C to 44°C
Examine the chromatography obtained in the test for related substance property	Complied	The peak response to menthol is not less than 97% of sum of all the peak response, excluding any due to ether.
ASSAY	Complies	98.0% to 102.0 %
ASSAY (ON GC)	99.701 %	MIN 99.0%
Limit of nonvolatile Residue (% w/w)	0.016%	NMT0.05% (Volatilize 2 g, accurately weighed, in a tared open porcelain dish on a steam bath and dry the residue at 105 ° for 1 hour.
Related Substance		
-Individual impurities (on GC)	Complies	NMT 0.3%
-Total impurities	Complies	NMT 2.0%

This Certificate of Analysis was created by the manufacturer/distiller of the product. This information is believed to be up-to-date and correct; however, it is provided without any warranty. The customer is responsible for examining the product upon arrival and determining the safe use of the product in order to be in compliance with all applicable laws and regulations. The product must be stored in a cool, dry place away from direct light and heat, tightly sealed and away from children, the mentally infirm and pets. Essential oils shipped in amber plastic pharmaceutical grade bottles must be transferred to amber glass upon arrival, those shipped in aluminum bottles may be stored in such bottles for a minimum of 6 months, tightly sealed. All responsibility (including damage or injury) for the use of this and any other product purchased from Camden-Grey Essential Oils, Inc. rests with the purchaser/user. Camden-Grey's liability is limited to the paid value of this product.



Certificate of Analysis

Product	MENTHOL CRYSTALS
Lot #	55473
Manufactured	7/2021
Best 'Use By' Date	7/2023

Properties	Results
Assay	99.62 % By GLC
Non Volatile Matter	0.04 %
Related Volatile Matter	0.34%
Optical Rotation	-49.64 degrees
Organic Volatile Impurities	Not present
Additional Information	Melting Range 42.4 C

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Certificate of Analysis

Product	MENTHOL CRYSTALS
Lot #	13400A
Manufactured	7/2021
Best 'Use By' Date	7/2023

Properties	Results
Assay	99.62 % By GLC
Non Volatile Matter	0.04 %
Related Volatile Matter	0.34%
Optical Rotation	-49.64 degrees
Organic Volatile Impurities	Not present
Additional Information	Melting Range 42.4 C

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Certificate of Analysis

Product	MENTHOL CRYSTALS
Lot #	53119
Manufactured	7/2021
Best Use By Date	7/2023

Properties	Results
Assay	99.64% BY GLC
Non-Volatile matter	0.04 %
Related volatile matter	0.32 %
Optical Rotation	- 49.62 degrees
Organic Volatile Impurities	Not present
Additional Information	Melting Range 42.2 C

This Certificate of Analysis was created by the manufacturer/distiller of the product. This information is believed to be up-to-date and correct; however, it is provided without any warranty. The customer is responsible for examining the product upon arrival and determining the safe use of the product in order to be in compliance with all applicable laws and regulations. The product must be stored in a cool, dry place away from direct light and heat, tightly sealed and away from children, the mentally infirm and pets. Essential oils shipped in amber plastic pharmaceutical grade bottles must be transferred to amber glass upon arrival, those shipped in aluminum bottles may be stored in such bottles for a minimum of 6 months, tightly sealed. All responsibility (including damage or injury) for the use of this and any other product purchased from Camden-Grey Essential Oils, Inc. rests with the purchaser/user. Camden-Grey's liability is limited to the paid value of this product.