

SILVERLINE CHEMICALS

MFRS. & EXPORTERS OF :
MENTHOL CRYSTALS, MEDICINAL HERBS, SPICES & ESSENTIAL OILS



CERTIFICATE OF ANALYSIS

ITEM	: Levomenthol USP/BP	:
LOT NO.	: SM00323205356	MFG. DATE : SEP 2025
LOT SIZE	: 1000 Kg.	:
ORIGIN	: India	EXPIRY DATE : AUG 2030
CONSIGNEE	:	INVOICE :

Parameters	Specifications	Results
Description	Colorless, hexagonal or crystals. needle-like crystals, or infused masses or crystalline powder; has a pleasant Peppermint like odor	Colorless, hexagonal crystals has a pleasant Peppermint like odor
Identification	When it is Triturated with about an equal weight of camphor, of chloral hydrate or of phenol, the mixture liquefies	When it is triturated with about an equal weight of phenol, the mixture liquefies
GC	Retention time of major peak of the sample solution corresponds to that of the standard solution as obtained in assay Dissolve 10mg in 1ml. of Sulphuric Acid and add 1ml of solution of vanillin in sulphuric acid and orange yellow color is produced, on adding 1ml of water the color changes to violet	Retention time of major peak of the sample solution corresponds to that of the standard solution as obtained in assay Dissolve 10mg in 1ml. of Sulphuric Acid and add 1ml of solution of vanillin in sulphuric acid and orange yellow color is produced, on adding 1ml of water the color changes to violet
Solubility	Slightly Soluble in water; very Soluble in alcohol; in chloroform; in ether and in solvent hexane; freely soluble in glacial acetic acid; in mineral oil and in fixed and volatile oils 1gm Soluble in 5 ml (Ethanol 90%): <u>"the solution transparent & Clear"</u>	Complies the solution transparent & Clear
Specific rotation (10% w/v solution in alcohol)	Between -45. and -51	-49.7
Limit of Non Volatile Residue	NMT 0.05%	0.02%
Purity(Chromatographic Purity)	98% - 102%	99.85
Melting Range	Between 41.C TO 44.C	42.80

A GOVT. OF INDIA RECOGNIZED EXPORT HOUSE

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Acidity	Not more than 0.5 mL of 0.01 M sodium hydroxide is required to change the color of the indicator to pink	Complies
Organic Volatile Residue (OVR) Residual Solvents <467>	Solvent Use Dimethyl Sulfoxide Not more than 5000 ppm or 0.5%	Excluded in production/ process/Absent/Nil
Ash Content	0.0003%	Complies
Heavy metal Content	Upon Treatment with hydrogen Sulphide, Samples are not darker than black	Complies
Individual impurities	NMT 0.1%	Complies
Total impurities	NMT 2.0%	Complies

REMARK : THE ABOVE PRODUCT COMPLIES WITH STANDARD OF QUALITY AS PER BP / USP-42 STANDARDS



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