



Typical Analysis

Product Name: Menthol Crystals (EP/USP)

TEST	REQUIREMENTS	OBSERVATIONS
TEST as per USP		
Description	Colorless crystals or fused masses (molten) or crystalline powder (fine powder) derived from variety of mint.	Colorless, crystals have pleasant mint like odor.
Identification:		
A. By Gas chromatograph	The retention time of the major peak of the sample solution corresponds to that of the menthol peak of standard solution, as obtained in the assay.	Complies
B. By SOR	Between -48°C and -51°C	-49°C
Specific Test:		
A) Melting range of L-Menthol	Between 41.0°C and 44.0°C	42°C to 43°C
B) Optical rotation (L-Menthol)	Between -45°C and -51°C	-49°C
Non volatile residue	Not more than 0.05%	0.03%w/w
Assay	Between 98.00% to 102.0%	99.6%
Related Compounds:		
A. Individual impurities	Not more than 0.30%	0.15%
B. Total Impurities	Not more than 2.0%	0.4%

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