



GALILEO

ESSENTIAL OILS & MORE

PEPPERMINT

Specifications



General Specification

Product Name	Peppermint Leaves (Steam Distilled – Egyptian – Galileo)
Botanical Name	Mentha × piperita L.
Botanical Family	Lamiacea
Description	Essential Oil Obtained from Leaves and Flowering top of Mentha × piperita
Status	Organic
Manufacturer	GMS TRADE
Harvest Season	Apr - Nov

Physical Specification

Parameter	Requirement	Test Method
Appearance	Clear – colorless to pale yellow liquid	Visual
Odor	Strong – Fresh – Minty – camphoraceous	Organoleptic
Taste	Sweet – Minty	Organoleptic
Solubility	Soluble in ethanol (≥90%) – Insoluble in water	Visual
Viscosity	Thin – Non-greasy @ 20°C	Capillary Viscometer
Optical Rotation	-14° to -32°	Visual
Specific Gravity	0.978 – 0.992 @ 20°C	ASTM D4052
Refractive Index	1.552 – 1.561 @ 20°C	ASTM D1218

Chemical Specification

Primary Constituents	Menthol, Menthone	
Parameter	Requirement %	Test Method
Menthol	30 – 50	GC-MS
Linalool	20 – 25	GC-MS
Menthyle Acetate	2 – 8	GC-MS
(Z)-Anethole	< 1	GC-MS
Alpha-Copaene	0.5	GC-MS
Trans-Beta-Caryophyllene	< 1	GC-MS

Key Applications & Benefits

Property	Usage	Advantage
Primary Profile	Analgesic - Antimicrobial - Stimulating	Immediate physiological impact Instant alertness - High potency
Skin Care Profile	Soothing itchiness - Oil control - Healing support	Cooling menthol content Antimicrobial properties
Hair Care Profile	Hair growth stimulation - Cleansing - Cooling relief	Antifungal & antibacterial properties

