

Certificate of Analysis

LIMONENE

Product Name	Limonene
INCI Name	Limonene
Chemical Name	D-Limonene / (+)-Limonene
CAS No.	5989-27-5
Molecular Formula	C ₁₀ H ₁₆
Molecular Weight	136.24 g/mol
Product Type	Aroma Chemical / Terpene
Grade	Perfumery / Cosmetic Grade
Appearance	Clear, colorless to pale yellow liquid
Odor	Characteristic fresh, sweet citrus/orange
Origin	India

Test Item	Specification	Result
Appearance	Clear, colorless to pale yellow liquid	Conforms
Odor	Characteristic fresh citrus/orange	Conforms
Identification	Conforms to reference	Conforms
Assay / Purity (GC)	≥ 95.0%	Conforms
Specific Gravity @ 20°C	0.838 – 0.845	Conforms
Refractive Index @ 20°C	1.470 – 1.476	Conforms
Optical Rotation	Positive / conforms to D-Limonene specification	Conforms
Solubility in Water	Practically insoluble	Conforms
Solubility in Alcohol	Soluble	Conforms
Color	Colorless to pale yellow	Conforms

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