



CERTIFICATE OF ANALYSIS (COA)

Supplier: Aromology
Product Name: Limonene D Natural
Chemical Name: d-Limonene (R-Limonene)
CAS Number: 5989-27-5
EC Number: 227-813-5
FEMA Number: 2633
Product Type: Natural Aroma Chemical (Monoterpene)
Source: Citrus Peel Oils
Country of Origin: Brazil

1. Product Information

Parameter	Details
Product Name	Limonene D Natural
Chemical Name	d-Limonene (R-Limonene)
CAS Number	5989-27-5
EC Number	227-813-5
FEMA Number	2633
Product Type	Natural Aroma Chemical (Monoterpene)
Source	Citrus Peel Oils
Intended Use	Perfumery, Cosmetics, Aromatics
Supplier	Aromology

2. Physical & Organoleptic Specifications

Test	Specification	Result
Appearance	Clear mobile liquid	Conforms
Colour	Colourless to pale yellow	Conforms
Odour	Fresh, sweet, citrus, orange peel characteristic	Conforms
Solubility	Insoluble in water; soluble in alcohol and perfumery solvents	Conforms

3. Typical Analytical Characteristics

Parameter	Typical Range	Result
Purity (GC)	≥95.0%	Conforms
Relative Density @20 °C	0.839 – 0.845	Conforms
Refractive Index @20 °C	1.4720 – 1.4740	Conforms



Parameter	Typical Range	Result
Optical Rotation	+95° to +105°	Conforms
Flash Point	Approximately 50°C	Conforms

4. Major Constituents (Typical)

Constituent	Typical Range (%)
d-Limonene	≥95.0
β-Pinene	0.5–2.0
Myrcene	0.5–2.0
γ-Terpinene	0.2–1.5
α-Pinene	Trace–1.0

Minor variations may occur depending on citrus variety, geographical origin and production batch.

5. Quality Assessment

Quality Parameter	Result
Identity Verified	PASS
Organoleptic Evaluation	PASS
Purity by GC	PASS
Natural Origin Verified	PASS
Suitable for Perfumery Use	PASS

6. Storage Conditions

Parameter	Recommendation
Storage Temperature	Store below 25°C
Light Exposure	Protect from direct sunlight
Container	Keep tightly sealed in the original container
Shelf Life	24 months under recommended storage conditions

7. Statement of Conformity

Aromology certifies that this batch of Limonene D Natural conforms to internal quality specifications for natural aroma chemicals and has been evaluated for identity, purity, physical characteristics and organoleptic quality.



This material is naturally derived from citrus peel oils by fractional distillation and contains no added solvents, synthetic fragrances or diluents.

8. Authorisation

Approved By	Department
Fozia Khot	Director
Aromology Trading LLC	Dubai, UAE

9. Supplier Details

AROMOLOGY

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Document Information

Parameter	Details
Document	Certificate of Analysis (COA)
Status	APPROVED
Date of Manufacture	03 August 2025
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