



CERTIFICATE OF ANALYSIS (COA)

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PRODUCT INFORMATION

Parameter	Details
Product Name	Narrow Leaf Peppermint Essential Oil
Correct Regulatory Identity	Eucalyptus Radiata Essential Oil
Other Common Name	Narrow Leaf Peppermint Gum Oil
Botanical Name	<i>Eucalyptus radiata</i> Sieber ex DC.
INCI Name	Eucalyptus Radiata Leaf/Stem Oil
CAS Number	92201-64-4
EC Number	295-995-3
Plant Part	Leaves and terminal twigs
Extraction Method	Steam distillation
Product Type	Natural essential oil / Natural Complex Substance
Country of Origin	Australia or batch-specific origin
Batch Number	NLPEO-260721

ORGANOLEPTIC ANALYSIS

Test	Specification	Representative Result
Appearance	Clear, mobile liquid	Conforms
Colour	Colourless to pale yellow	Conforms
Odour	Characteristic fresh eucalyptus odour	Conforms
Olfactive Profile	Fresh, mild, cooling, camphoraceous, eucalyptus-like and subtly minty	Conforms
Foreign Matter	Free from visible foreign material	Conforms
Odour Comparison	Consistent with approved reference	Conforms



PHYSICO-CHEMICAL ANALYSIS

Test	Representative Specification	Representative Result
Relative Density at 20 °C	0.900–0.930	0.914
Refractive Index at 20 °C	1.455–1.475	1.463
Optical Rotation at 20 °C	Batch-specific	Conforms
Flash Point, Closed Cup	Approximately 42 °C or above	44 °C
Acid Value	Maximum 2.0 mg KOH/g	0.7 mg KOH/g
Peroxide Value	Maximum 10.0 meq O ₂ /kg	2.4 meq O ₂ /kg
Water Content	Maximum 0.50%	0.11%
Solubility in Ethanol	Soluble to dispersible	Conforms
Water Solubility	Practically insoluble	Conforms
GC/GC-MS Profile	Consistent with authentic <i>Eucalyptus radiata</i> oil	Conforms

A current supplier SDS reports a representative relative-density range of **0.900–0.930** and a flash point of approximately **42 °C** for this material.

REPRESENTATIVE CONSTITUENT PROFILE

Constituent	Representative Specification	Representative Result
1,8-Cineole / Eucalyptol	60.0–75.0%	67.8%
d-Limonene	3.0–12.0%	8.0%
Alpha-Pinene	2.0–10.0%	5.1%
Beta-Pinene	0.5–5.0%	0.9%
Alpha-Terpinene	Trace–1.5%	0.6%
Gamma-Terpinene	Trace–5.0%	2.6%
Terpineol Isomers	2.0–12.0%	8.9%
Linalool	Trace–1.0%	0.7%
Citral	Trace–1.0%	0.8%
Geraniol	Trace–1.0%	0.7%
Beta-Caryophyllene	Trace–1.0%	0.4%



The constituent values are representative and reflect commercially available supplier declarations rather than an independently analysed Aromology batch. A 2025 expanded-allergen declaration reported limonene at 8%, terpineol at 12%, pinene at 6%, citral at 0.8%, geraniol and linalool at 0.7%, alpha-terpinene at 0.6%, and beta-caryophyllene at 0.4%.

PURITY AND ADDITIVES

Assessment	Status
Added Carrier	None declared
Added Synthetic Fragrance	None declared
Added Colour	None declared
Added Preservative	None declared
Dilution	Undiluted
Botanical Authenticity	Conforms to representative botanical profile
Adulteration	No intentional adulteration declared

STORAGE CONDITIONS

Store:

- In the original tightly closed container
 - Between 15°C and 25°C
 - Protected from direct sunlight
 - Away from heat, flames and ignition sources
 - Away from strong oxidising agents
 - With minimum container headspace
 - In a dry and well-ventilated location
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SHELF LIFE

Recommended Retest Period: 24 months from the manufacturing date when stored under recommended conditions.

QUALITY CONCLUSION

The material described above conforms to Aromology Trading LLC's representative commercial specification for:



Narrow Leaf Peppermint Essential Oil – *Eucalyptus radiata*

IMPORTANT NOTICE

The numerical results in this certificate are representative commercial values and are not independent laboratory results for a specific Aromology production batch.

For contractual release, customer approval or regulatory submission, the values should be replaced by the original batch-specific manufacturer Certificate of Analysis and GC/GC-MS report.

AUTHORISED BY

Fozia Khot
Director