



CERTIFICATE OF ANALYSIS (COA)

PRODUCT INFORMATION

Product Name: Clove Leaf Oil
Supplier Product Name: Clove Leaf Oil Rectified 85%
Product Code: CL-185
Botanical Name: Syzygium aromaticum
INCI Name: Syzygium aromaticum Extract
CAS Numbers: 84961-50-2; 8000-34-8
EC/EINECS Numbers: 904-912-8; 284-638-7
FEMA Number: 2325
Country of Origin: Indonesia
Plant Part: Leaves
Extraction Method: Steam distillation followed by fractional rectification
Product Type: Rectified natural essential oil
Grade: Premium perfumery grade
Cultivation: Conventional

BATCH INFORMATION

Batch Number: CLR-260710
Manufacturing Date: 13/05/2026
Retest Date: 13/05/2029
Certificate Issue Date: 10/07/2026

PHYSICAL AND CHEMICAL ANALYSIS

Test	Specification	Result
Appearance	Clear mobile liquid	Conforms
Colour	Colourless to pale yellow	Conforms
Odour	Spicy, earthy, warm, woody and eugenol-like	Conforms
Refractive Index at 20 °C	1.5330–1.5356	Conforms
Specific Gravity at 25 °C	1.0250–1.0500	Conforms
Optical Rotation at 25 °C	–2.00° to 0°	Conforms
Boiling Point	Approximately 251 °C	Conforms
Flash Point	Approximately 110 °C	Conforms
Water Solubility	Insoluble	Conforms
Ethanol Solubility	Soluble	Conforms
Alcohol Solubility Test	1 ml dissolves in 2 ml of 70% alcohol	Conforms
Eugenol Content	80.00–88.00%	Conforms
Overall Purity	100% rectified natural essential oil	Conforms



TYPICAL COMPOSITION

Component	CAS Number	Specification
Eugenol	97-53-0	80.00–88.00%
β -Caryophyllene	87-44-5	7.80–11.10%
α -Humulene	6753-98-6	1.15–2.23%
Eugenyl Acetate	93-28-7	0.00–0.90%
Methyl Eugenol	93-15-2	0.00–0.01%
Other naturally occurring constituents	Various	Balance

STORAGE

Store in a tightly closed original container in a cool, dry and well-ventilated location. Protect from direct sunlight, excessive heat, moisture and strong oxidising agents.

SHELF LIFE

The product has a recommended shelf life of 36 months from the manufacturing date when stored in unopened original packaging under the recommended conditions.

CONCLUSION

The tested material conforms to the stated quality specifications for Clove Leaf Oil (Rectified) and is suitable for professional perfumery, cosmetic, fragrance, soap and home-fragrance applications, subject to appropriate safety assessment and IFRA compliance.

Aromology

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