



Clove Leaf Oil – Product Specification

Product Information

Parameter	Specification
Product Name	Clove Leaf Essential Oil
Botanical Name	<i>Syzygium aromaticum</i> (Syn. <i>Eugenia caryophyllata</i>)
Common Name	Clove Leaf Oil
Plant Part Used	Leaves
CAS No.	8000-34-8
EINECS No.	284-638-7
HS Code	3301.29 (Country specific)
Origin	India
Extraction Method	Steam Distillation

Organoleptic Properties

Parameter	Specification
Appearance	Clear to pale yellow or brownish-yellow liquid
Color	Pale yellow to brown
Odor	Strong, spicy, woody, warm, characteristic clove aroma
Taste	Hot, pungent (Not for direct consumption)



Physical & Chemical Properties

Parameter	Specification
Specific Gravity (25°C)	1.030 – 1.060
Refractive Index (20°C)	1.528 – 1.538
Optical Rotation	-2° to +2°
Flash Point	Above 93°C
Solubility	Soluble in alcohol and fixed oils; insoluble in water

Major Chemical Constituents

Component	Typical Range (%)
Eugenol	80–90
β -Caryophyllene	5–12
Eugenyl Acetate	1–5
α -Humulene	0.5–2
Caryophyllene Oxide	Trace–1

Quality Standards

- 100% Pure & Natural
- Steam Distilled
- No Synthetic Additives
- No Artificial Fragrance
- No Mineral Oil
- Non-GMO
- Free from Heavy Metals (within permissible limits)
- Free from Pesticide Residues (as per importing country regulations)



Microbiological Parameters

Parameter	Specification
Total Plate Count	Within acceptable limits
Yeast & Mold	Within acceptable limits
<i>Escherichia coli</i>	Absent
<i>Salmonella</i>	Absent
<i>Staphylococcus aureus</i>	Absent

Packaging

- 1 kg Aluminum Bottle
- 5 kg Aluminum Container
- 25 kg HDPE Drum
- 180 kg GI/MS Drum
- Customized packaging available upon request

Storage Conditions

- Store in tightly sealed containers.
- Keep in a cool, dry, and well-ventilated place.
- Protect from direct sunlight, heat, and moisture.
- Keep containers tightly closed after use.

Shelf Life

24 Months from the date of manufacture when stored under recommended storage conditions.



Applications

- Food Flavoring (where permitted by regulations)
- Pharmaceutical Industry
- Dental Preparations
- Cosmetics & Personal Care
- Soap & Detergent Manufacturing
- Perfumery
- Aromatherapy
- Herbal Formulations

Certifications (Available on Request)

- ISO 22000
- GMP
- HALAL
- FSSAI
- APEDA Registration
- Certificate of Origin (COO)
- Phytosanitary Certificate (where applicable)
- MSDS (Material Safety Data Sheet)
- COA (Certificate of Analysis)
- GC-MS Analysis Report

Country of Origin: India