

SPECIFICATION

Product Name: Clove Oil
Chemical Formula: C ₁₀ H ₁₂ O ₂
CAS Number: 8000-34-8
Molecular Weight: 164.20 g/mol
Appearance: A clear, pale yellow liquid.
Odor: Odor.

Chemical Composition

Parameter	Unit	Specification (Min/Max)
Botanical Source	-	Syzygium aromaticum
Specific Gravity @ 20°C	g/ml	1.038 g/ml
Refractive Index @ 20°C	-	1.528
Boiling Point	°C	251°C @ 760 mmHg
Eugenol	%	85%

Physical Properties

- Solubility: Practically Insoluble in water. Freely soluble in ethanol. Miscible in Fixed oils and essential oils. Soluble in Propylene glycol. Freely soluble in ether. Freely soluble in chloroform.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed, light-resistant container in a cool, dry, and well-ventilated place, away from direct sunlight, heat, and sources of ignition. Protect from exposure

to air and moisture to minimize oxidation and maintain product quality. For best stability, keep the container tightly sealed when not in use and store at 15–25°C unless otherwise specified by the manufacturer.

Applications

- Use: Widely used as a flavoring agent, fragrance ingredient, and natural antimicrobial agent. In the pharmaceutical and oral care industries, it is commonly used in toothpastes, mouthwashes, dental preparations, and throat care products due to its soothing and antiseptic properties. It is also used in food and beverage flavoring, cosmetics, perfumes, aromatherapy products, and traditional herbal formulations. The principal active component, eugenol, contributes to its characteristic aroma and functional properties.

- Dosage: Depends on the application, formulation type, and regulatory requirements.

Packaging

- Standard Packing: 50 Liter plastic can, 25 Liter and 1 Liter, or as per customer requirement.

- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.