

SPECIFICATION

Product Name: Eucalyptus Oil
Chemical Formula: C ₁₀ H ₁₈ O
CAS Number: 8000-48-4
Molecular Weight: 154.25 g/mol
Appearance: Colourless to pale yellow liquid
Odor: Odor

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Specific Gravity at 25°C	-	0.892	0.850 – 0.927
Optical rotation	°	+6.9°	-15° - +10°
Refractive index at 25°C	-	1.4601	1.4500 – 1.4700
1,8- Cineole	%	63.83%	Min. 60.00%

Physical Properties

- Solubility: Insoluble in water. Soluble in ethanol. Soluble in chloroform. Soluble in ether.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
 - Storage Conditions: Store in a cool, dry, and well-ventilated place at 15–25°C. Keep the container tightly closed in the original amber-colored, airtight container to protect from light, heat, air, and moisture. Store away from strong oxidizing agents, sparks, open flames, and other ignition sources, as eucalyptus oil is a flammable essential oil. Proper storage helps maintain its aroma, potency, and stability.

Applications

- Use: Widely used in pharmaceutical, cosmetic, personal care, and aromatherapy products for its decongestant, cooling, and refreshing properties. It is commonly incorporated into inhalants, vapor rubs, cough and cold preparations, throat lozenges, liniments, massage oils, ointments, creams, mouthwashes, toothpastes, soaps, shampoos, and skin care products. It is also used as a

fragrance and flavoring agent, and in household products such as air fresheners, cleaners, and insect repellents.

- Dosage: Depends on the intended use, formulation, concentration, and route of administration. It should be used only according to product labeling or as directed by a qualified healthcare professional.

Packaging

- Standard Packing: 25 Liter Plastic Can 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.