

SPECIFICATION

Product Name: Tea Tree Oil
Chemical Formula: N/A
CAS Number: 68647-73-4
Molecular Weight: N/A
Appearance: Light yellow liquid
Odor: Odor

Chemical Composition

Parameter	Unit	Typical Value
Specific Gravity @ 20°C	-	0.893
Optical rotation @ 20°C	-	+9.25
Refractive index @ 20°C	-	1.477
1,8 Cineol	%	1.55%
Terpinene-4-ol	%	41.2%

Physical Properties

- Solubility: Insoluble in water. Soluble in ethanol. Soluble in ether. Soluble in chloroform. Soluble in hexane. Soluble in vegetable oil. Soluble in propylene glycol.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
- Storage Conditions: Store Tea Tree Oil in a cool, dry, and dark place, preferably at 15–25°C, protected from direct sunlight, heat, moisture, and air exposure. Keep the container tightly closed in the original, properly sealed packaging to minimize oxidation and maintain its characteristic aroma and quality. Avoid prolonged exposure to high temperatures and store away from strong oxidizing agents, ignition sources, and incompatible materials. After opening, minimize headspace and repeated exposure to air to help preserve the oil's stability.

Applications

- Use: Widely used in cosmetic, personal care, topical, and aromatherapy formulations for its characteristic cleansing, deodorizing, and refreshing properties. It is commonly incorporated into creams, lotions, gels, ointments, shampoos, conditioners, soaps, face washes, cleansers, mouth-care products, and skin-care preparations. It is also used as a fragrance and botanical ingredient in various personal care products. For topical applications, it should be appropriately diluted in a suitable carrier or formulation base before use.
- Dosage: Depends on the intended application and formulation type.

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.