

## TEA TREE OIL

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### Origin

Tea Tree Oil is obtained from the leaves of the *Melaleuca alternifolia* plant, native to Australia. The oil is extracted through **steam distillation**, a process that captures its potent bioactive compounds, particularly **terpinen-4-ol** and **γ-terpinene**. Sourced from sustainable plantations, Tea Tree Oil is a time-honored natural ingredient renowned for its **purifying, antimicrobial, and soothing properties** used in traditional and modern skincare.

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### Summary

Tea Tree Oil is a **powerful natural essential oil** known for its **antibacterial, antifungal, and anti-inflammatory properties**, making it ideal for clarifying and balancing formulations. It is highly effective in acne-care, scalp treatments, deodorants, and foot care products. Beyond its cleansing efficacy, it helps soothe irritation and support a clearer, healthier complexion, offering a refreshing, herbal aroma that enhances natural formulations.

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### Technical Data

- **INCI Name:** Melaleuca Alternifolia (Tea Tree) Leaf Oil
  - **CAS Number:** 68647-73-4
  - **Extraction Method:** Steam Distillation
  - **Chemical Composition:** Terpinen-4-ol (≥35%), γ-Terpinene, α-Terpinene, 1,8-Cineole, α-Pinene
  - **Solubility:** Insoluble in water; soluble in alcohols and oils
  - **Shelf Life:** 24 months (store tightly sealed, away from light and heat)
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### Usage Level in Cosmetics and Personal Care Products

Recommended inclusion levels vary depending on application and desired efficacy:

- **Acne & Blemish Treatments:** 0.5–2%

- **Cleansers & Toners:** 0.1–0.8%
  - **Hair & Scalp Care:** 0.2–1%
  - **Body Care & Deodorants:** 0.3–2%
  - **Foot Care & Antifungal Products:** 0.5–3%
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### Properties

- Natural antibacterial and antifungal activity
  - Helps reduce blemishes and skin irritation
  - Promotes scalp health and freshness
  - Purifies and deodorizes formulations
  - Refreshing, herbal, and medicinal aroma
  - Supports clean and natural formulation concepts
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### Appearance

Clear to pale yellow liquid with a characteristic warm, herbal, camphoraceous scent.

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### Product Overview

**Suncoast Personal Care Products Tea Tree Oil** is a premium-grade essential oil that brings natural purity, protection, and efficacy to cosmetic and personal care formulations. Sourced from the leaves of the *Melaleuca alternifolia* tree and steam-distilled for quality and potency, it offers reliable antimicrobial performance and refreshing sensory appeal. Ideal for clarifying skincare, scalp treatments, and clean beauty formulations, **Suncoast Personal Care Products Tea Tree Oil** embodies purity, performance, and sustainability — trusted by formulators for its proven benefits and consistent quality.

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### Environmental Working Group (EWG) Safety Level

**EWG Rating:** 1 (Low Hazard) — Recognized as safe for cosmetic and personal care formulations when used within recommended limits.

