

## TECHNICAL DATA SHEET

**Printed Date 24/05/2019**

**Item Code : 001**

**Date : 24/05/2019**

**Item Name : AUSTRALIAN TEA TREE OIL B.P.**

**Version : 06**

**CAS # 68647-73-4**

**FEMA # 3902**

**EINECS # 285-377-1**

**Botanical Name Melaleuca alternifolia**

**Product Description** Clear colourless to pale yellow mobile liquid with powerful, fresh, warm spicy earthy odour

**INCI** Melaleuca alternifolia (Tea Tree) leaf oil

**Origin** Obtained by steam distillation from foliage and terminal branches of Melaleuca alternifolia.

**PHYSICO-CHEMICAL PROPERTIES:**

**Appearance** Colourless to pale yellow

**Physical Status** LIQUID

**Flash Point (Closed cup) °C** 55°C

**Refractive Index** 1.475 - 1.482 @20°C

**Relative Density** 0.885 - 0.906 @20°C

**Optical Rotation** +7° to +12°

**Solubility in Alcohol** Soluble

**Solubility in Water** Insoluble

**Main Components by GLC**

gamma-Terpinene: 14.0 – 28.0%	1,8-cineole: max 10.0%
Terpinolene: 1.5 – 5.0%	Terpinen-4-ol: 35.0 – 48.0%
alpha-Terpinene: 6.0 – 12.0%	alpha-Pinene: 1.0 - 4.0%
Sabinene: max. 3.5%	Limonene: 0.5 – 1.5%
para-Cymene: 0.5 – 8.0%	alpha-Terpineol: 2.0 – 5.0%

**Shelf Life** 36 months under recommended storage conditions.

**Legislation** Natural

**Stability** Avoid strong acids strong bases and all oxidising agents

**Uses** Food/Flavour, Fragrance application

**HANDLING PRECAUTION** Handle in adequate ventilation, avoid skin and eye contact, use goggles or face shield and wear protective clothing

**PACKING & STORAGE** Store at ambient temperature, dry and well-ventilated area, away from heat source and protected from light. Store in tightly sealed original stainless-steel containers or packed in Aluminium bottles. Preference is to store with Argon or Nitrogen blanket over headspace.

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