



Tea Tree Essential Oil Analysis

Product:	Tea Tree Essential Oil Australia
INCI Name:	Melaleuca Alternifolia (Tea Tree) Leaf Oil
Country of Origin:	Australia
Botanical part:	Leaf
Botanical Name:	<i>Melaleuca alternifolia</i> (Maiden & Betche) Cheel.
CAS Number:	85085-48-9 / 8022-72-8 / 68647-73-4

Characteristics:

	Requirement	Result
Appearance:	Clear liquid	Conforms
Colour:	Colourless to pale yellow	Conforms
Odour:	Spicy-camphoraceous, Pine-like	Conforms
Specific Gravity (gr/ml) @ 20°C:	0.885 – 0.906	0.895
Refractive Index @ 20°C:	1.475 – 1.482	1.478

GC/MS/FID Analysis (%):

1	Terpinen-4-ol	30.0 – 48.0	42.9
2	γ -Terpinene	10.0 - 28.0	19.7
3	α -Terpinene	5.0 - 13.0	9.5
4	Terpinolene	1.5 – 5.0	3.4
5	α -Terpineol	1.5 - 8.0	3.1
6	p-Cymene	0.5 – 12.0	2.3
7	α -Pinene	0.5 – 6.0	2.1
8	1,8-Cineole	Max. 15.0	1.7
9	δ -Cadinene	N/A	1.3
10	Aromadendrene	N/A	1.2
11	Ledene	N/A	1.0
12	Limonene	0.5 – 4.0	0.8
13	Sabinene	N/A	0.5
14	Globulol	N/A	0.2
15	Viridiflorol	N/A	0.1