

Certificate of Analysis

Product: Tea Tree Australian Essential Oil

Botanical Name: *Melaleuca alternifolia*

Country of Origin: Australia

PHYSICAL AND CHEMICAL PROPERTIES

TEST	SPECIFICATION	RESULT
Appearance	Clear, colourless to pale yellow, mobile liquid	Conforms
Odour	Characteristic	Conforms
Specific Gravity	0.880 to 0.910 @ 20°C	Conforms
Refractive Index	1.4750 to 1.4820 @ 20°C	Conforms
Optical Rotation	+7° to +12° @ 20°C	Conforms

GAS CHROMATOGRAPH ANALYSIS (TYPICAL)

CONSTITUENT	SPECIFICATION	RESULT
α -Pinene	1.0% to 4.0%	2.40%
Sabinene	Max. 3.5%	0.12%
α -Terpinene	6.0% to 12.0%	9.35%
δ -Limonene	0.5% to 1.5%	0.85%
p-Cymene	0.5% to 8.0%	2.58%
1,8-cineole	Max. 10.0%	1.93%
γ -Terpinene	14.0% to 28.0%	20.66%
Terpinolene	1.5% to 5.0%	3.42%
4-Terpineol	35.0% to 48.0%	43.28%
α -Terpineol	2.0% to 5.0%	3.08%
Aromadendrene	0.2% to 3.0%	1.10%
Ledene	0.1% to 3.0%	0.88%
δ -Cadinene	0.2% to 3.0%	0.87%
Globulol	Max. 1.0%	0.17%
Viridiflorol	Max. 1.0%	0.14%