

Tea Tree Oil

DESCRIPTION

With a fresh, distinctive aroma, this versatile and well known oil has a myriad of benefits and uses.

Tea Tree Oil is steam distilled from the leaves and lateral branches of the *Melaleuca alternifolia*, a tree native to the mid east coast of Australia. This plant has been used in traditional medicine in Australia for centuries.

With over 92 compounds in its chemical makeup, it is no wonder Tea Tree oil has such a wide array of benefits and properties and has become so popular.

A natural antiseptic, with anti-bacterial, antifungal and antimicrobial properties, amongst others it is a valued addition to products ranging from household cleaning products to skin care, hair care and bath products.

PRODUCT NAME	Tea Tree Oil
BOTANICAL NAME	<i>Melaleuca alternifolia</i>
INCI NAME	Melaleuca Alterifolia (Tea Tree) Leaf Oil
CAS No	8022-72-8/68647-73-4
EINECS No	285-377-1
EXTRACTION	Steam distilled
PLANT PART	Leaves and lateral branches

The specifications and chemical composition of tea tree oil can vary according to variety, climate and environment.

BOTANY

The *Melaleuca Alternifolia* is a small tree that grows up to 7 metres that is native to south east Queensland and northern NSW and ranges in Australia. It is a member of the Myrtaceae family and grows along streams and swamp flats. The leaves are soft, smooth and linear in shape and up to 35mm long and are rich in oil. The tree flowers usually in spring and early summer with white/cream colored masses.

SPECIFICATIONS

APPEARANCE	Colourless to pale yellow/green colored liquid
ODOUR	Characteristic, fresh, warm
SPECIFIC GRAVITY @20°C	0.885 to 0.906
REFRACTIVE INDEX @20°C	1.475 to 1.482
OPTICAL ROTATION @20°C	+5.0 to +15.0
FLASHPOINT	56.6°C

The above specifications are offered in good faith and are accurate to the best of our knowledge; however, no guarantee or warranties are offered or implied. It is recommended that your laboratories perform their own analysis to ensure that the product specifications and results meet your specific requirements, and those of your local national governmental standards.



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GLOBAL ESSENTIALS

Tea Tree Oil

GENERAL CHEMICAL COMPOSITION

COMPONENT	MIN %	MAX %
α -Pinene	1	4
Sabinene	trace	3.5
α -Terpinene	6	12
Limonene *	0.5	1.5
p-Cymene	0.5	8
1,8-Cineole	trace	10
γ -Terpinene	14	28
Terpinolene	1.5	5
Terpinen-4-ol	35	48
α -Terpineol	2	5
Aromadendrene	0.2	3
Ledene (syn. viridiflorene)	0.1	3
δ -Cadinene	0.2	3
Globulol	trace	1
Viridiflorol	trace	1

Tea Tree Oil is a complex mixture of terpene hydrocarbons and tertiary alcohols, and the main compounds responsible for the antimicrobial activity are terpinen-4-ol and 1, 8-cineole. The international standard regulation for TTO sets a minimum content of 30% terpinen-4-ol and a maximum content of 15% 1,8-cineole.

ALLERGENS: Contains Limonene

WARNING: Do not ingest

HISTORY:

Indigenous Australians have long recognised the benefits of the Tea Tree. They used to crush the leaves and the oil inhaled to relieve colds and headaches, or the crushed leaves were applied to wounds and skin abrasions. But it was only in the 1920s, after Arthur Penfold, an Australian state government chemist, published a series of papers on tea tree oil's antiseptic properties that this oil's benefits became more widely known.

GENERAL USES:

Properties: Antimicrobial, antifungal, antiseptic, expectorant, fungicide, stimulant, antibacterial, immunostimulant, insecticide

Common Uses: As well as antifungal and antiseptic, the benefits of Tea Tree oil include cleansing properties and a refreshing scent making this versatile oil can be useful for everything from home cleaning solutions to skin care.

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NATURALLY AUSTRALIAN
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Tea Tree Oil

As a natural antiseptic, and with its antibacterial properties, its is a valued ingredient in sanitising products and cleaning products.

Its antifungal properties make it a popular addition to products aimed at skin issues and fungal infections.

Its many properties make it a beneficial addition to bath products, oral health products, hair care and insect repellants.

It is popular in skin care products, particularly those aimed at problem skin conditions such as acne.

Tea tree is used in Aromatherapy and as an aid in the treatment of respiratory issues.

With its powerful antiseptic and antibacterial properties it is a favourite in First Aid kits.

Can cause skin irritation if used undiluted.

Caution:

It is recommended to do a skin patch test to check for a possible allergic reaction, before using certain oils in large quantities on the skin.

Do not ingest Tea Tree Oil.

General Safety Information: Use caution when trying any new ingredient, including carrier oils on the skin or in the hair. Those with nut allergies should consult their medical practitioner before coming into contact with nut oils, butters or other nut products.

COMPANY REGULATORY STATEMENTS

Storage: Keep in a cool area away from heat and light in a suitable airtight container.

Animal Testing Statement: We confirm that we do not nor have ever tested our products or their individual ingredients/raw materials on animals. Our company is against animal testing. We will never knowingly purchase from any supplier who participates in animal testing. We are committed to cruelty free products and do not use or sell products that have been tested on animals.

BSE and TSE Statement: Essential oils are obtained by extraction from plants, trees or fruit. These processes do not use any sources that are derived from animals. Essential oils are free from BSE (Bovine Spongiform Encephalopathy) and TSE (Transmissible Spongiform Encephalopathy).

Sewer Sludge Statement: This product has not been produced with the use of sewage sludge.

Non Irradiation Statement: We can confirm that this product is not treated by irradiation or ETO. Consumer safety and customer satisfaction are our primary concerns.

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GLOBAL ESSENTIALS

Tea Tree Oil

Non GMO Statement: Our products are produced using traditional methods. No genetically modified organisms (GMO's) or transgenic breeding methods are used in their production.

Prop 65 Statement: This product is devoid of the materials in California Safe Program Proposition 65

Naturally Occurring Statement: We take pride in providing our customers with safe, reliable, high quality products. We are pleased to declare that our products are Naturally Occurring Substances. All of our oils are derived from natural products and produced using traditional methods and are not produced synthetically.

Nagoya Statement: This product is sourced from a country with complies with the Nagoya protocol and is not endangered according to the Access/Benefit Sharing (Biodiversity) regulation.

CMR Substances Statement: Our products do not contain any substances classified as carcinogenic, mutagenic or reprotoxic (CMR) of categories 1A, 1B or 2 under Regulation (EC) No. 1272/2008

Responsible Sourcing Statement: This product is produced under safe conditions in compliance with social and environmental rules by authorized suppliers using voluntary labour.

Nano Technology Statement: This product has been manufactured without use of any kind of Nanotechnology and does not contain ingredients resulting therefrom.

Non Nanoparticle Statement: Carrier and Seed oils are naturally occurring products and obtained by extraction from plants, trees, seeds or fruits. All of our products are unadulterated, pure and free from nanoparticles unless otherwise stated.

Phthalates Statement: Carrier and Seed oils are naturally occurring products and obtained by extraction from plants, trees, seeds or fruits. All of our products are unadulterated, pure and free from phthalates unless otherwise stated.

PEG Free Statement: Our products are Polyethylene Glycol (PEG) free. All of our oils are derived from natural products and produced using traditional methods and are not produced synthetically.



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