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## Technical Data Sheet

### Tea tree oil

#### Product Information

Chemical Name      Tea tree oil  
CAS #                 68647-73-4

#### Description

Tea tree oil, or melaleuca oil, is an essential oil with a fresh camphoraceous odor and a color that ranges from pale yellow to nearly colorless and clear.

#### Physical Properties

Boiling range, °C                 165 °C(lit.)  
Density @ 20°C, g/cm<sup>3</sup>         0.878 g/mL at 25 °C(lit.)  
Flash point, °C                    147 °F

#### Specification

Item of inspection	Specification	Result of Inspection
Character	colorless to light yellow clear liquid	Qualified
Specific Density	0.893-0.938	0.915
Refractive Index	1.4710-1.4892	1.4775
optical Rotation	+1° - +15°	+7°
Acid Value	≤3(mgkOH/g)	0.38
Saponification Value	185~196	189.9
Iodine Value	80~88	84.2
Solubility	1L completely dissolved in 5L 70% ethanol.	Qualified
Content	with $\alpha$ , $\beta$ and $\gamma$ - terpinene 29%. with terpineol 60% with eucalyptol 26%.with volatileoil99.9%.	Qualified

## Safety

Hazardous in case of skin contact (irritant), of eye contact (irritant).  
Always refer to the Material Safety Data Sheet (MSDS)

## Applications

1. Tea tree oil is the greatest oil to fight viruses, bacteria and fungi. Wounds and scrapes can be washed out with a mixture to disinfect the area.
2. Tea tree oil is used in vapor therapy and can help with colds, measles, sinusitis and viral infections.
3. Tea tree oil has been used for skin and hair and to combat acne, oily skin, head lice and dandruff.
4. Tea tree oil is helpful in case of burns if applied immediately by washing area with ice water, then applying drops of tea tree oil to burned area helps to produce soothing and healing effect to the skin. It is helpful in case of calluses and corns.
5. Tea tree oil is being used in number of applications like all purpose cleaner, deoderizer, bedsores, dishwashers, humidifiers, plant sprays, vaporisers etc.
6. Tea tree oil acts as a very good hair conditioner. Because of the mild qualities of tea tree's terpinen content, the oil can soothe cuts, scratches, sunburn and cold sores. Because it's non-irritating, a single drop of the oil can be applied directly to minor injuries once or twice a day.
7. Tea tree oil has proved helpful in eau de Cologne, hair oils, powder perfumes, hair washes and shampoo preparation.
8. Tea tree oil is used for many household cleaning purposes.
9. Tea tree oil includes the use of deodorisers for misting the room with the application of tea tree oil.
10. The addition of drops of tea tree oil in to the humidifier help in cleaning and refreshing the air.
11. Tea tree oil can also be used to treat oral bacteria that cause cavities, gum disease, and halitosis. Commercially tea tree oil is considered an effective addition to antiseptic oral rinses and toothpastes.

## Packaging

25kg or 50kg /iron drum

## Storage & Handling

**Precautions:** Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids, alkalis.

**Storage:** Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Please refer to the Materials Safety Data Sheet (MSDS) for the handling methods.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we has been advised of the possibility of such damages.*

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