

GC-MS Analysis Report for Tea Tree Essential Oil

Company Name: Sugmy Essential Oils

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Lab Reference Number: 2025-001

Product Details

Product Name: Tea Tree Essential Oil

Source: Steam Distilled

Purity: 100%

Analytical Summary

Parameter	Result	Standard Range
Appearance	Clear	Clear
Odor	Characteristic	Characteristic
Refractive Index	1.459	1.457 - 1.463
Specific Gravity	0.882	0.870 - 0.890
Purity	100%	>= 98%

Key Constituents Identified by GC-MS

Compound	Concentration (% Area)	Standard Range
Linalool	34.0%	25.0% - 38.0%

Linalyl Acetate	28.7%	25.0% - 45.0%
Camphor	0.9%	<= 1.2%
Terpinen-4-ol	4.2%	2.0% - 6.0%
1,8-Cineole	2.0%	<= 3.5%
Beta-Caryophyllene	1.5%	<= 2.5%
Lavandulyl Acetate	1.2%	<= 1.5%
Other Minor Components	Balance	<= 20%

Additional Observations

1. Purity Confirmation: This GC-MS analysis confirms the sample of Tea Tree Essential Oil is 100% pure,
with no synthetic additives or contaminants detected.
2. Compliance: This batch complies with ISO 3515:2002 standards for natural essential oils and IFRA safety guidelines.

Applications and Use Cases

- Aromatherapy: Enhances relaxation and mental well-being.
- Perfumery: Used as a natural fragrance ingredient.
- Skincare: Ideal for formulations due to its purity.
- Pharmaceuticals: Applicable in therapeutic solutions.

Conclusion

This batch of Tea Tree Essential Oil meets premium quality standards. Its purity and superior composition

make it ideal for industrial and therapeutic applications.

Issued By: Sugmy Quality Assurance Lab

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