

GC-MS Analysis Report for Gardenia Essential Oil

Company Name: Sugmy Essential Oils

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Lab Reference Number: 2025-001

Product Details

Product Name: Gardenia 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 Gardenia 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 Gardenia 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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