



TECHNICAL DATA

LINALOOL

Synthetic floral-citrus aroma chemical with soft, diffusive freshness

1. RAW MATERIAL IDENTIFICATION

Product name	Linalool
Chemical name	3,7-Dimethylocta-1,6-dien-3-ol
INCI name	LINALOOL
CAS number	78-70-6
FEMA number	2635
FLAVIS number	02.013
Molecular formula	$C_{10}H_{18}O$
Molecular weight	154.25 g/mol
Chemical group	Acyclic monoterpene alcohol
Raw material type	Synthetic aroma chemical
Origin	Synthetic
Country of origin	China
Raw material category	Synthetic aroma chemical
Halal status	Halal compliant
Kosher status	Kosher compliant

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2. OLFACTORY CLASSIFICATION AND ODOUR PROFILE

Olfactory family: Floral / Citrus / Woody

Position in a fragrance: Top and middle note

Odour profile: A soft floral note with lavender, lightly lemony muguet, fresh citrus tones and a woody-terpenic nuance in the dry-down.

Olfactory character: Soft, airy, floral, lightly citrusy and lavender-like, with a clean, diffusive freshness and a subtle woody-terpenic facet.

3. RAW MATERIAL DESCRIPTION

Linalool is a synthetic perfumery raw material belonging to the floral-citrus and floral-woody olfactory families. It is one of the most widely used ingredients in modern perfumery because of its soft floral freshness, good diffusion and excellent compatibility with a broad range of fragrance directions.

Its profile is soft, airy and floral-citrus. It presents nuances of lavender, lightly lemony muguet and fresh floral cleanliness, while a subtle woody-terpenic facet develops in the background. This profile allows it to function as a linking, softening and structural element in many different compositions.

Within the fragrance structure, Linalool acts as a top and middle note. It gives freshness, airiness and a gentle citrus-floral brightness in the opening, while contributing softness, volume and a smoother connection between floral, aromatic and green materials in the heart.

Functional role in perfumery: Linalool serves as a versatile floral-aromatic building block, diffuser and blending material. It softens transitions, supports natural floral effects and connects citrus, aromatic, green and woody elements.

4. APPLICATION AND OLFACTORY COMPATIBILITY

Linalool is particularly useful in:

- floral accords;
- lavender and lavandin compositions;
- fougère fragrances;
- citrus-floral fragrances;
- cologne structures;
- fresh aromatic compositions;
- muguet and white-floral accords;
- clean fragrances and cosmetic fragrance formulations.

In floral compositions it contributes softness, freshness and a naturally evocative floral tone. In lavender and fougère fragrances it connects aromatic, herbal, coumarinic and woody elements. In citrus and cologne structures it provides a softer, less sharp freshness and improves the overall roundness of the composition.

It combines particularly well with lavender, lavandin, bergamot, lemon, petitgrain, neroli, geranium, rose, jasmine, muguet materials, linalyl acetate, citral, citronellol, geraniol, hydroxycitronellal, coumarin, white musks, cedarwood, sandalwood and clean woody bases.

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5. RECOMMENDED USE

Floral compositions	1-20%
Lavender and lavandin accords	2-25%
Fougère fragrances	1-15%
Citrus-floral compositions	1-10%
Cologne structures	1-10%
Clean fragrance formulations	0.5-8%
Cosmetic fragrance formulations	According to the applicable IFRA limits and allergen declaration thresholds

The supplied technical data do not specify a single recommended general use level. The ranges above are typical formulation guidelines and are not regulatory maximum concentrations. The final level must be established according to the current IFRA documentation, the supplier's SDS, the intended product category and the safety assessment of the finished formulation.

6. PHYSICOCHEMICAL AND TECHNICAL DATA

Appearance	Liquid
Colour	Colourless to very pale yellow
Odour	Floral, citrus
Density at 20 °C	0.858-0.868
Density at 25 °C	0.858-0.867
Refractive index at 20 °C	1.461-1.465
Flash point	76 °C
Purity	Minimum 98.0%
Solubility	Not stated in the supplied TDS; verify compatibility in the intended alcoholic or lipophilic system

The stated values are based on the supplied product data. Batch-specific acceptance criteria and test methods should be confirmed against the current supplier specification and certificate of analysis.



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7. STABILITY AND FORMULATION COMPATIBILITY

Linalool is sensitive to air and light. Store under nitrogen at a cool temperature not exceeding 20 °C, protected from air and light. Minimise headspace and close the container promptly after use.

It is highly compatible with floral, lavender, fougère, citrus, herbal, green, woody, musky, cologne, clean-fragrance and aromatic compositions. Compatibility, colour stability and odour development should nevertheless be verified in the intended finished formulation and packaging.

8. REGULATORY DATA AND STATUS

Intended use: Professional use in perfumery, cosmetic and flavour formulations.

Vegan status: Vegan; contains no ingredients of animal origin.

GMO status: GMO-free; contains no genetically modified organisms.

Halal status: Halal compliant.

Kosher status: Kosher compliant.

Nanomaterials: Not stated in the supplied technical data; confirm against the current supplier declaration where relevant.

IFRA status: Check the current IFRA documentation and apply all requirements for the relevant finished-product category.

Allergen status: Linalool is a declarable fragrance allergen. Its concentration in the finished cosmetic product must be calculated and declared when the applicable regulatory threshold is exceeded.

9. STORAGE AND SHELF LIFE

Store under nitrogen in the original, well-filled and tightly closed container, at a cool temperature not exceeding 20 °C, protected from air and light.

Shelf life: 24 months when stored under the recommended conditions.

10. SAFETY INFORMATION

Linalool is a concentrated raw material intended for professional use. It must not be applied directly to the skin in undiluted form. Avoid contact with skin and eyes and avoid inhalation of vapour or aerosol. Use suitable protective gloves and eye protection and ensure adequate ventilation.

Consult the current supplier SDS for the applicable hazard classification, first-aid measures, handling requirements and disposal instructions. Exposure to air and light should be minimised throughout storage and handling.

11. DISCLAIMER

The information in this document applies only to the described raw material and does not replace the current supplier specification, certificate of analysis, IFRA documentation or SDS. The user is responsible for confirming identity, quality, suitability, stability, safety and regulatory compliance in the intended application and target market. This document does not constitute regulatory approval or a guarantee of finished-product performance.