

TECHNICAL DATA SHEET

DIHYDROMYRCENOL

Synthetic acyclic terpene alcohol with an intense, clean and fresh character

1. RAW MATERIAL IDENTIFICATION

Product name	Dihydromyrcenol
Chemical name	2,6-Dimethyloct-7-en-2-ol
INCI name	2,6-DIMETHYL-7-OCTEN-2-OL
CAS / EC number	18479-58-8 / 242-362-4
REACH number	01-2119457274-37-XXXX
FEMA / JECFA number	Not stated
FLAVIS number	02.144
Molecular formula / weight	C ₁₀ H ₂₀ O / 156.27 g/mol
Chemical group	Acyclic terpene alcohol
Raw material origin	Synthetic, produced from plant-derived feedstocks
Raw material category	Aroma chemical

2. OLFACTORY CLASSIFICATION AND ODOUR PROFILE

Dihydromyrcenol belongs to the aromatic, fresh, citrus and lavender-like olfactory families. In a fragrance composition, it functions as a top-to-middle note, providing immediate freshness, cleanliness, airiness and pronounced diffusion.

Its odour is intense, clean and fresh, with citrus, lavender-like, mildly pine-like, green and terpenic nuances. It is intended for fragrance compositions, cosmetic products and fragrance formulations for household and hygiene products.



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3. DESCRIPTION AND FUNCTION IN FRAGRANCE COMPOSITION

Dihydromyrcenol is a highly diffusive aroma chemical with a pronounced fresh, clean and aromatic character. Its profile combines citrus, lavender-like, mildly pine-like, green and terpenic nuances with a recognisable effect of freshness and cleanliness.

It is particularly important in modern masculine fragrances and in fougère, citrus and aquatic compositions. It provides intensity, airiness and strong projection, while contributing a lasting impression of cleanliness in functional products.

Functional role in perfumery: It is used as a powerful aromatic-fresh note, a building block for modern fougère and citrus accords, and a modifier of lavender-like, green, aquatic and woody compositions. It increases diffusion, airiness and the perception of cleanliness.

4. APPLICATION AND OLFACTORY COMPATIBILITY

Recommended use in fragrances: For building intense fresh, aromatic, citrus and lavender-like notes and for achieving a clean, diffusive and contemporary fragrance character.

It is used to create and modify:

- modern fougère compositions;
- citrus and citrus-aromatic accords;
- lavender-like and aromatic-herbal fragrances;
- aquatic, ozonic and marine compositions;
- fresh green, pine-like and woody accords;
- sporty and modern masculine fragrances;
- cologne and functional fragrance bases;
- fragrances for soaps, detergents, fabric softeners and hygiene products;
- air fresheners and other ambient fragrance products.

It combines well with bergamot and other citrus oils, linalool, linalyl acetate, lavandin, dihydroterpineol, terpineol, citronellol, geraniol, nerol, coumarin, Hedione, galbanum, green and aquatic materials, cedar notes and musk aroma chemicals.

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5. RECOMMENDED USE

Method of use	May be added directly to the fragrance concentrate; for laboratory evaluation, a 10% solution may be prepared in ethanol, dipropylene glycol or another suitable solvent
Recommended use level	0.50-10.00% in the fragrance concentrate
Dosing note	Below 0.50% for a subtle increase in freshness; in distinctly fresh fougère and functional compositions, adjust the level to the desired effect
IFRA status	According to the supplier's documentation for the 51st IFRA Amendment, use up to 100% is permitted in all listed categories; the document sets no specific restriction for this raw material

The stated range is a formulation recommendation and not a regulatory maximum. Confirm the final concentration against the current IFRA certificate, the safety assessment and the intended use of the finished product.

6. PHYSICOCHEMICAL AND TECHNICAL DATA

Appearance / colour	Clear liquid / colourless
Odour	Intense, clean and fresh aromatic odour with citrus, lavender-like, mildly pine-like and terpenic nuances
Purity	99.5-100%
Relative density at 20 / 25 °C	0.830-0.835 / 0.828-0.833
Refractive index at 20 / 25 °C	1.438-1.443 / 1.435-1.445
Boiling point / melting point	Approximately 192 °C / below -18 °C
Flash point	76 °C, closed-cup method
Solubility	Insoluble in water; soluble in ethanol and conventional perfumery solvents
Solubility in alcohol	Approximately 1 ml in 4 ml of 70% ethanol
Shelf life	24 months



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7. STABILITY AND COMPATIBILITY

Stable under proper handling and storage conditions. Avoid contact with strong oxidising agents, acids and bases. Stability, compatibility, colour and odour profile must be confirmed in the finished formulation and intended packaging.

8. REGULATORY DATA AND STATUS

Vegan status: Vegan; no raw materials of animal origin are used in the manufacturing process.

GMO status: Does not contain and is not derived from GMOs.

Nanomaterials: Does not contain nanomaterials according to the relevant regulatory definitions.

Dihydromyrcenol, i.e. 2,6-Dimethyl-7-octen-2-ol, is included in the expanded list of declarable fragrance allergens in the European Union. Its presence in a cosmetic product must be assessed and declared in accordance with the applicable transitional periods and concentration thresholds.

9. STORAGE AND SHELF LIFE

Store at a temperature not exceeding 25 °C in the original, hermetically sealed container, protected from light, heat and prolonged contact with air. Close the container immediately after use.

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

10. SAFETY INFORMATION

Dihydromyrcenol is intended for professional use as an ingredient in fragrance and cosmetic compositions. It must not be applied directly to the skin in concentrated form.

According to the supplier's safety data sheet: H315 - Causes skin irritation; H319 - Causes serious eye irritation; H336 - May cause drowsiness or dizziness.

Wear suitable protective gloves and eye protection. Avoid inhalation of vapours or aerosols and work in a well-ventilated area. Prevent larger quantities from entering drains, soil and waterways.

11. DISCLAIMER

The information applies exclusively to the raw material described and does not replace the specification, COA, IFRA documentation or SDS issued by the specific manufacturer. The user is responsible for verifying suitability, stability, safety and regulatory compliance for the intended application and target market. This document does not constitute regulatory approval or a guarantee of finished-product properties.