

TECHNICAL DATA SHEET

ISOLONGIFOLANONE

Synthetic woody-amber fragrance material with dry, resinous nuances

1. RAW MATERIAL IDENTIFICATION

Product name	Isolongifolanone
INCI name	ISOLONGIFOLANONE
IUPAC name	2,2,8,8-Tetramethyl-octahydro-1H-2,4a-methanonaphthalen-10-one
CAS number	23787-90-8
Molecular formula	C ₁₅ H ₂₄ O
Molecular weight	220.35 g/mol
FEMA number	Not stated
FLAVIS number	Not stated
Chemical group	Polycyclic ketone / synthetic woody-amber material
Raw material origin	Synthetic
Raw material category	Aroma chemical

2. OLFACTORY CLASSIFICATION AND ODOUR PROFILE

Isolongifolanone belongs to the woody / amber-woody / resinous olfactory family and functions primarily as a base note in fragrance compositions.

Its profile is dry, elegant and persistent, with woody, amber, resinous and subtly camphoraceous nuances.



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3. DESCRIPTION AND FUNCTION IN FRAGRANCE COMPOSITIONS

Isolongifolanone is a synthetic aroma chemical characterised by a dry, elegant and highly persistent woody profile with amber and resinous nuances. A subtle camphoraceous facet adds freshness and definition without compromising the material's warm base-note character.

In perfumery, it is used as an important building material for woody bases and as a modifier that improves the lasting effect of a composition. It contributes depth, a dry woody structure and a refined amber effect.

It is particularly suitable for woody-amber fragrances, fougère compositions, smoky bases, men's fragrances and modern chypre structures. Its persistence enables it to connect the heart of a composition with woody, amber and musky base notes.

It combines well with vetiver, cedarwood, patchouli, labdanum, Iso E Super-type materials, amber accords, musks and leather bases.

Functional role in perfumery: Persistent woody-amber base note, structural modifier and enhancer of dry, resinous and smoky fragrance effects.

4. APPLICATION AND OLFACTORY COMPATIBILITY

Recommended use in perfumery: For building dry woody and amber bases, increasing depth and persistence, and modifying fougère, smoky, leather and modern masculine compositions.

It is used to create and modify:

- woody-amber bases;
- dry cedarwood and resinous accords;
- fougère compositions;
- smoky and leather bases;
- modern chypre fragrances;
- men's fragrances;
- amber and musky bases;
- fragrances for cosmetic and personal-care products.

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5. RECOMMENDED USE

Recommended range	0.1-5.0% in fragrance compositions
Woody-amber bases	0.5-5.0%
Fougère compositions	0.2-3.0%
Smoky and leather bases	0.1-2.0%
Men's fragrances	0.2-5.0%

Pre-dilution in ethanol, dipropylene glycol (DPG) or triethyl citrate (TEC) is recommended for easier dosing and more precise balancing of the formula. The stated ranges are formulation recommendations and do not represent regulatory maximum concentrations. The current IFRA certificate must be checked for the relevant finished-product category.

6. PHYSICOCHEMICAL AND TECHNICAL DATA

Appearance	Liquid
Colour	Pale yellow
Odour	Amber, woody
Olfactory character	Dry, woody, amber and resinous, with a subtle camphoraceous nuance
Density at 20 °C	1.000-1.010
Refractive index at 20 °C	1.5010-1.510
Flash point	>100 °C
Purity	95%
Solubility	Soluble in alcohol and fragrance bases



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7. STABILITY AND COMPATIBILITY

The material shows very good stability in fragrance formulations and is compatible with woody, amber, smoky and musky fragrance bases. Compatibility, stability, colour and odour profile should be confirmed in the intended finished formulation and packaging.

8. REGULATORY INFORMATION AND STATUS

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

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

IFRA status: Not stated in the supplied data. The current IFRA certificate must be checked before use in the finished product.

Nanomaterials: Not stated in the supplied data.

9. STORAGE AND SHELF LIFE

Store at room temperature, at a maximum of 25 °C, in the original, well-filled and tightly closed container, protected from air and light. Close the container immediately after use.

Recommended storage temperature: Maximum 25 °C.

Shelf life: 60 months under the recommended storage conditions.

10. SAFETY INFORMATION

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

Use suitable protective gloves and eye protection. Avoid direct contact with the skin and eyes and avoid inhalation of vapour or aerosol. Work in a well-ventilated area and follow the current Safety Data Sheet for the specific product.

11. DISCLAIMER

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