

TECHNICAL DATA SHEET

CINNAMYL ALCOHOL

Synthetic floral-balsamic aromatic unsaturated alcohol

1. RAW MATERIAL IDENTIFICATION

Product name	Cinnamyl Alcohol
Chemical name	3-Phenylprop-2-en-1-ol
INCI name	CINNAMYL ALCOHOL
CAS number	104-54-1
EC / EINECS number	203-212-3
Molecular formula	C ₉ H ₁₀ O
Molecular weight	134.18 g/mol
Raw material type	Synthetic aroma chemical - aromatic unsaturated alcohol
Origin	Synthetic
Country of origin	China
ISO 16128	0% natural origin
Renewable carbon	0%

2. OLFACTORY CLASSIFICATION AND ODOUR PROFILE

Cinnamyl Alcohol belongs to the Floral / Balsamic / Spicy olfactory family. It functions primarily as a middle note and supports the floral heart of compositions, especially where a transition is required between white flowers, gentle spice and a warmer balsamic base.

Its odour is soft, sweet and floral, with a hyacinth nuance, mild balsamic depth and a discreet cinnamon-spicy background. Compared with cinnamaldehyde, it is considerably softer, less sharp and more rounded in its floral character.



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3. DESCRIPTION AND FUNCTION IN FRAGRANCE COMPOSITION

Cinnamyl Alcohol is a synthetic aroma chemical with a soft floral-balsamic and mildly spicy character. Its profile links a delicate floral note reminiscent of hyacinth with gentle sweetness, balsamic depth and a discreet cinnamon nuance.

In fragrance compositions it functions primarily as a middle note. It is used to shape the floral heart, particularly in formulas requiring a smooth transition between white flowers, spicy nuances and a warmer balsamic base.

It is especially suitable for hyacinth and other floral accords, mild chypre and fougère compositions, and oriental structures in which it softens sharper spicy tones. Its odour character adds warmth to floral compositions without introducing excessive heaviness.

It combines well with jasmine, ylang-ylang, muguet and other white-floral notes, as well as benzoin, vanilla materials, cinnamon components, soft musks and light woody notes.

Because it is a regulated fragrance material, its concentration in the finished formulation must comply with current IFRA requirements. The IFRA Standards Library lists Cinnamic Alcohol, CAS 104-54-1, as a restricted material.

Functional role in perfumery: A soft floral-balsamic middle note and linking material that rounds the floral heart, moderates sharper spicy facets and connects floral notes with warmer balsamic and woody elements.

4. APPLICATION AND OLFACTORY COMPATIBILITY

Recommended use in fragrances: For floral, hyacinth, chypre, fougère, balsamic and oriental compositions, particularly to round the floral heart and connect floral notes with warmer base materials.

It is suitable for:

- hyacinth accords;
- white-floral compositions;
- jasmine and ylang-ylang accords;
- mild chypre fragrances;
- fougère compositions;
- floral-balsamic accords;
- oriental and spicy-floral fragrances;
- cosmetic and functional fragrance compositions.

It combines particularly well with hyacinth, jasmine, ylang-ylang, muguet, benzoin, vanilla materials, cinnamon components, soft musks and light woody notes.

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5. RECOMMENDED USE

Recommended use in fragrances	Floral, hyacinth, chypre, fougère, balsamic and oriental compositions
Typical concentrations	A specific recommended dosage range is not stated in the supplied TDS
IFRA status	Restricted; the maximum concentration depends on the finished-product category and must be verified against the current IFRA certificate

Dosage should be adjusted to the required floral-balsamic and mildly spicy effect. Preliminary testing of compatibility, stability, colour and odour profile in the finished formulation is recommended. The applicable IFRA limit always refers to the relevant finished-product category.

6. PHYSICOCHEMICAL AND TECHNICAL DATA

Appearance	Crystalline solid
Colour	White to pale yellow
Odour	Sweet, balsamic and spicy
Olfactory character	Soft and floral-balsamic, with sweetness, a hyacinth nuance and a discreet cinnamon-spicy facet
Relative density at 25 °C	1.035-1.045
Refractive index at 20 °C	1.577-1.587
Freezing point	31-35 °C
Flash point	126 °C, closed cup
Purity	99-100%
Cinnamaldehyde	Maximum 1.0%
Solubility	Soluble in diethyl ether, n-octanol, methanol, glycerol and other organic solvents
Antioxidants	Contains no added antioxidants



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7. STABILITY AND COMPATIBILITY

Stable under the prescribed storage conditions when protected from light, heat and air. It combines well with floral, balsamic, spicy, chypre and oriental materials, especially hyacinth, jasmine, ylang-ylang, benzoin, cinnamon materials, musks and mild woody notes. Compatibility, colour, stability and odour profile must be confirmed in the finished formulation and intended packaging.

8. REGULATORY DATA AND STATUS

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

GMO status: Contains no GMOs and is not derived from GMO raw materials.

ISO 16128 status: 0% natural origin.

Renewable carbon: 0%.

IFRA status: Restricted use according to IFRA standards; apply the current limit for the relevant finished-product category.

Allergen status: Cinnamyl Alcohol is a declarable fragrance allergen. Its concentration in the finished cosmetic product must be assessed and declared in accordance with applicable regulatory requirements.

Halal status: Halal compliant. Kosher status: Certified.

Nanomaterials: Contains no nanomaterials. BSE/TSE status: No BSE/TSE risk.

Palm oil: Contains no palm oil, palm-kernel oil or their derivatives.

9. STORAGE AND SHELF LIFE

Store in the original, tightly closed container, protected from light, heat and air. Close the container immediately after use.

Recommended storage temperature: Maximum 25 °C.

Shelf life: 24 months under the prescribed storage conditions.

10. SAFETY INFORMATION

Cinnamyl Alcohol is intended for industrial and professional use in fragrances, cosmetics and flavours. Avoid direct contact with the undiluted material.

Use appropriate protective equipment, avoid contact with skin and eyes and ensure adequate ventilation. Consult the current SDS before use and follow all applicable handling and exposure-control measures.

The final concentration must comply with the current IFRA certificate, the safety assessment of the finished product and the regulations of the target market.

11. DISCLAIMER

The information applies solely to the described raw material 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 in the intended application and target market. This document does not constitute regulatory approval or a guarantee of finished-product properties.