



TECHNICAL DATA SHEET

CIS-3-HEXENYL SALICYLATE

Synthetic green-floral aroma chemical with a persistent, slightly balsamic salicylate character

1. RAW MATERIAL IDENTIFICATION

Product name	Cis-3-Hexenyl Salicylate
Chemical name	cis-3-Hexenyl 2-hydroxybenzoate
Synonyms	Leaf Salicylate; cis-3-Hexen-1-yl Salicylate; (Z)-3-Hexenyl Salicylate; Hex-3-en-1-yl Salicylate
INCI name	CIS-3-HEXENYL SALICYLATE
CAS number	65405-77-8
EC number	265-745-8
FEMA number	4750
JECFA number	2275
FLAVIS number	09.570
IUPAC name	[(3Z)-Hex-3-en-1-yl] 2-hydroxybenzoate
Molecular formula	$C_{13}H_{16}O_3$
Molecular weight	220.27 g/mol
Chemical group	Salicylic acid ester
Raw material origin	Synthetic
Country of origin	China
Raw material category	Synthetic aroma chemical

TECHNICAL DATA SHEET

2. OLFATORY CLASSIFICATION AND ODOUR PROFILE

Fragrance note	Middle and base note
Primary olfactory family	Green
Secondary olfactory family	Floral – Other
Additional classification	Balsamic
Odour profile	Green, floral and slightly balsamic, with nuances of fresh leaves, cut grass and white flowers
Application	Fragrance compositions and cosmetic products

Cis-3-Hexenyl Salicylate is the ester of salicylic acid and cis-3-hexenol. It combines the fresh green character of cis-3-hexenol with the persistent floral and slightly balsamic odour of salicylates.

3. DESCRIPTION AND FUNCTION IN FRAGRANCE COMPOSITION

Cis-3-Hexenyl Salicylate is a persistent aroma chemical with a green-floral and slightly balsamic odour profile. It links the characteristic freshness of green leaves and cut grass with soft, floral and warm salicylate nuances.

Unlike highly volatile cis-3-hexenol, this material develops a softer, rounder and considerably longer-lasting green effect. The green component remains present in the middle and dry-down, providing continuity and a more natural transition between the top, middle and base notes.

It is particularly suitable for white-floral compositions. In tuberose, ylang-ylang, jasmine, narcissus and muguet accords, it reduces the heaviness of floral notes and contributes a more airy expression.

Functional role in perfumery: Persistent green-floral modifier, blending component and fixative. It extends the duration of green notes, adds body to floral accords and links fresh top notes with the warmer middle and base sections of the composition.

4. APPLICATION AND OLFATORY COMPATIBILITY

Cis-3-Hexenyl Salicylate is used to create and modify:

- green and green-floral accords;
- leaf and freshly cut grass compositions;
- tuberose, ylang-ylang, jasmine and muguet accords;
- floral compositions with a natural green character;
- fougère and chypre fragrances;
- solar and warm floral accords;
- narcissus, hyacinth, carnation and violet fragrances;
- tea, herbal and vegetative compositions;
- fragrances for soaps, cosmetic products and hygiene products.

It combines well with cis-3-hexenol, cis-3-hexenyl acetate, cis-3-hexenyl benzoate, hexyl salicylate, benzyl salicylate, amyl salicylate, linalool, hydroxycitronellal, ionones, galbanum, jasmine materials, ylang-ylang and musky aroma chemicals.



TECHNICAL DATA SHEET

5. RECOMMENDED USE

Recommended use level	0.10–1.00% in the fragrance concentrate
Method of use	May be used neat or pre-diluted in a suitable perfumery solvent
Laboratory dilution	10% solution in ethanol or DPG for more precise dosing

In pronounced green and floral accords, the concentration may be adjusted to the desired odour effect. The stated range is a formulation guideline, not a regulatory maximum concentration.

6. PHYSICOCHEMICAL AND TECHNICAL DATA

Appearance	Clear liquid
Colour	Colourless to pale yellow
Relative density at 20 °C	1.048–1.072
Relative density at 25 °C	1.055–1.062
Refractive index at 20 °C	1.518–1.524
Flash point	110 °C
Purity	97.0–100.0%
Solubility	Practically insoluble in water; soluble in ethanol, fixed oils and common perfumery solvents
Volatility	Low to moderate; develops mainly in the middle and base sections of the composition
Storage	At temperatures up to 25 °C, in the original, well-filled and hermetically sealed container, protected from air, light and heat sources
Shelf life	24 months
Conditions of shelf-life validity	Storage in the original container under the recommended conditions

Close the container immediately after use. The stated values apply to the described commercial grade; parameters of the specific batch must be confirmed using the manufacturer's applicable TDS and COA.

TECHNICAL DATA SHEET

7. STABILITY AND FORMULATION COMPATIBILITY

The material is stable when stored correctly. Prolonged exposure to air, light and heat may cause a change in colour and gradual hydrolysis, with the formation of traces of salicylic acid. Stability, colour, odour and compatibility must be confirmed in the intended finished formulation and packaging.

8. REGULATORY DATA AND STATUS

Halal status: Complies with Halal requirements.

Kosher status: Complies with Kosher requirements.

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

GMO status: Not derived from GMOs and contains no GMOs.

Nanomaterials: Contains no nanomaterials according to the relevant regulatory definitions.

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

9. SAFETY INFORMATION

Cis-3-Hexenyl Salicylate 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.

H317	May cause an allergic skin reaction
H410	Very toxic to aquatic life with long-lasting effects

Wear suitable protective gloves and eye protection. Avoid inhalation of vapour or aerosol and direct contact with skin and eyes. Prevent release into drains, soil and waterways. Verify the exact classification in the current SDS for the specific product.

10. 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 identity, origin, purity, 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.