

TECHNICAL DATA SHEET

ISOAMYL SALICYLATE

Synthetic floral-balsamic salicylate aroma chemical

1. RAW MATERIAL IDENTIFICATION

Product name	Isoamyl Salicylate
Synonyms	Amyl Salicylate (ISO); Isopentyl Salicylate; 3-Methylbutyl Salicylate; Isoamyl 2-Hydroxybenzoate
INCI name	ISOAMYL SALICYLATE
IUPAC name	3-Methylbutyl 2-hydroxybenzoate
CAS number	87-20-7
FEMA number	2084
FLAVIS number	09.751
Molecular formula	C ₁₂ H ₁₆ O ₃
Molecular weight	208.25 g/mol
Raw material type	Synthetic aroma chemical; salicylic acid ester
Origin	Synthetic

2. OLFACTORY CLASSIFICATION AND ODOUR PROFILE

Isoamyl Salicylate belongs primarily to the Floral - Iris / Muguet olfactory family, with an important Balsamic facet and subtle Green and Herbal - Agrestic - Mint nuances. It functions as a middle-to-base note and supports the continuity and persistence of floral accords.

Its odour is soft, floral-balsamic and slightly green, with nuances of lily of the valley, white flowers and orchid, supported by a discreet medicinal salicylate background. It is especially suitable for muguet, white-floral, floral-balsamic and fougère compositions.



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3. DESCRIPTION AND FUNCTION IN FRAGRANCE COMPOSITION

Isoamyl Salicylate is a synthetic salicylate aroma chemical and an important classic material for building floral and balsamic fragrance accords. Its profile combines soft floral fullness with characteristic salicylate balsamicity and mild green and herbal nuances.

Olfactorily, it is particularly associated with white flowers and lily of the valley, with a discreet facet reminiscent of orchid. A mildly medicinal, balsamic nuance typical of salicylates remains in the background, providing depth and persistence without pronounced sweetness.

In a fragrance composition, Isoamyl Salicylate develops mainly in the middle and base notes. It connects the floral heart with deeper balsamic and woody elements, thereby improving continuity and roundness. It is especially useful when greater fullness is required in a floral accord without an excessively heavy or sweet effect.

One of its important uses is in muguet accords, where it supports the lily-of-the-valley character and improves depth and persistence. It is also useful in white-floral compositions, including jasmine and related floral structures.

In fougère compositions, it links aromatic and green elements with coumarinic, mossy and woody base notes. Its green-balsamic nuance is well suited to classic masculine fougère fragrances, as well as contemporary floral-green and unisex compositions.

Functional role in perfumery: A persistent floral-balsamic middle-to-base note, modifier and linking material. It gives volume to muguet and white-floral accords, connects the floral heart with balsamic and woody notes and improves overall roundness and longevity.

4. APPLICATION AND OLFACTORY COMPATIBILITY

Recommended use in fragrances: For building and modifying floral-balsamic, muguet, white-floral and fougère compositions.

It is suitable for:

- lily-of-the-valley accords;
- white-floral compositions;
- jasmine and floral-green accords;
- floral-balsamic compositions;
- classic and contemporary fougère fragrances;
- green and aromatic compositions;
- masculine fragrance structures;
- soapy and cosmetic fragrance compositions.

It combines well with hydroxycitronellal and other muguet materials, jasmine ingredients, benzyl salicylate, hexyl salicylate, lavender, coumarin, green aroma chemicals, mossy accords, cedarwood, sandalwood and other soft woody materials.

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5. RECOMMENDED USE

Recommended use in fragrances	Floral-balsamic, muguet, white-floral and fougère compositions
Typical concentrations	Not stated in the supplied Description or TDS
IFRA status	No specific IFRA restrictions are known according to the supplied description; the current IFRA certificate remains authoritative

The dosage is determined according to the desired intensity of the floral-balsamic and salicylate character. Because of its good persistence, the effect should also be evaluated after the composition has fully developed.

6. PHYSICOCHEMICAL AND TECHNICAL DATA

Appearance	Viscous liquid
Colour	Colourless
Odour	Floral and balsamic
Olfactory character	Soft, floral-balsamic, slightly green and herbal, with lily-of-the-valley and white-floral nuances and a discreet medicinal salicylate background
Density at 25 °C	1.044-1.052
Refractive index at 20 °C	1.505-1.510
Optical rotation	Not stated in the supplied TDS
Flash point	132 °C
Purity	Minimum 98%
Solubility	Not stated in the supplied TDS
Shelf life	24 months



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7. STABILITY AND COMPATIBILITY

Stable when correctly stored in the original, well-filled and hermetically sealed container, protected from air, moisture and light. It combines well with other salicylates, lily-of-the-valley, jasmine and other white-floral materials, green notes, lavender, coumarinic materials, mossy accords, woody notes and fougère ingredients. Compatibility, colour, stability and odour profile must be confirmed in the finished formulation and intended packaging.

8. REGULATORY DATA AND STATUS

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

GMO status: Contains no GMOs and is not produced from genetically modified organisms, in accordance with Regulations (EC) No 1829/2003 and 1830/2003.

Halal and Kosher status: Not stated in the supplied TDS.

IFRA status: No specific IFRA restrictions are known according to the supplied description. The current IFRA certificate is authoritative for the finished formulation.

Nanomaterials: Not stated in the supplied TDS.

9. STORAGE AND SHELF LIFE

Store in a cool, dry place in the original, well-filled and hermetically sealed container, protected from air, moisture and light. Close immediately after use.

Storage temperature: A specific temperature range is not stated in the supplied TDS.

Shelf life: 24 months under the recommended storage conditions.

10. SAFETY INFORMATION

Isoamyl Salicylate is intended for professional use in fragrance and cosmetic fragrance formulations. The safety classification is not stated in the supplied TDS.

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.

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.