

TECHNICAL DATA SHEET

BENZYL ACETATE NATURAL

100% natural, plant-derived floral-fruity ester aroma chemical

1. RAW MATERIAL IDENTIFICATION

Product name	Benzyl Acetate Natural
INCI name	BENZYL ACETATE
CAS number	140-11-4
Molecular formula	C ₉ H ₁₀ O ₂
Molecular weight	150.17 g/mol
Raw material type	Natural ester aroma chemical
Origin	100% natural, plant-derived
Country of origin	China
Renewable carbon fraction	1.0 (100%)
ISO 16128 status	Compliant
Raw material category	Natural aroma chemical

2. OLFACTORY CLASSIFICATION AND ODOUR PROFILE

Benzyl Acetate Natural belongs primarily to the Floral - Jasmine olfactory family, with a mild fruity facet. It functions as a top-to-middle note and contributes freshness, fullness and a recognisable white-floral character.

Its odour is sweet, fresh and naturally floral-fruity, with a pronounced jasmine character, a frangipani nuance and gentle fruity fullness. It is particularly suitable for jasmine and white-flower reconstructions, ylang-ylang, tuberose, frangipani and floral-fruity compositions.



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3. DESCRIPTION AND FUNCTION IN FRAGRANCE COMPOSITION

Benzyl Acetate Natural is a natural floral-fruity aroma chemical with a particularly important role in reconstructions of jasmine and other white flowers. Its profile is sweet, fresh and mildly fruity, with a characteristic jasmine note and a frangipani nuance.

It occurs naturally in jasmine, ylang-ylang and numerous other white flowers, which makes it an important component for achieving a more natural floral character. In fragrance compositions it contributes freshness, fullness and a distinctive fruity-floral texture.

It is especially valuable in jasmine construction. Combined with indole, methyl anthranilate, Hedione and other jasmine materials, it supports a more complex and realistic floral profile. Benzyl Acetate provides the brighter, sweet-fruity side of jasmine, while indole deepens its animalic-floral dimension.

It also works well in ylang-ylang, tuberose, frangipani and orange-blossom accords, where it creates a soft transition between fresh top notes and the richer floral heart.

Its mild fruity facet also supports floral-fruity fragrances. It can link floral notes with pear, peach, banana and other light fruit accords without creating an excessively syrupy or heavy effect.

The natural origin of this grade contributes greater olfactory complexity than simpler synthetic interpretations, which is particularly useful in compositions intended to recreate natural white flowers.

Functional role in perfumery: A floral-fruity building material for jasmine and white-flower accords, and a linking component that improves freshness, volume and naturalness in floral compositions.

4. APPLICATION AND OLFATORY COMPATIBILITY

Recommended use in fragrances: As an important floral-fruity component in reconstructions of jasmine, ylang-ylang, tuberose, frangipani and other white flowers, and in floral-fruity compositions.

It is suitable for:

- jasmine and white-flower reconstructions;
- ylang-ylang accords;
- tuberose and frangipani compositions;
- orange-blossom accords;
- floral-fruity fragrances;
- naturally inspired floral structures;
- pear, peach and light-fruit accords;
- modern feminine and unisex floral compositions.

It combines particularly well with jasmine materials, ylang-ylang, tuberose, orange blossom, indole, methyl anthranilate, Hedione, linalool and other floral and fruity components.



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5. RECOMMENDED USE

Recommended use in fragrances	Precise typical concentrations are not stated in the supplied description or TDS
Dosage guidance	Adjust according to the desired intensity of the jasmine and floral-fruity character and the overall structure of the fragrance composition
IFRA status	No specific IFRA restrictions are known according to the supplied description; verify the current IFRA certificate before use in the finished product

Preliminary testing of solubility, compatibility, stability, colour and odour profile in the finished formulation is recommended. Any use level must be confirmed against the current IFRA certificate and the safety assessment for the relevant finished-product category.

6. PHYSICOCHEMICAL AND TECHNICAL DATA

Appearance	Liquid
Colour	Colourless to pale yellow
Odour	Floral and fruity
Olfactory character	Sweet, fresh and naturally floral-fruity, with a pronounced jasmine character, a frangipani nuance and mild fruity fullness
Density at 20 °C	1.049-1.065
Refractive index at 20 °C	1.500-1.504
Flash point	95-102.2 °C
Purity	98%
Renewable carbon fraction	1.0 (100%)
Solubility	Not stated in the supplied TDS
Shelf life	24 months



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7. STABILITY AND COMPATIBILITY

Stable under the prescribed storage conditions when kept in the original, well-filled and hermetically sealed container and protected from air and light. It is compatible with jasmine materials, ylang-ylang, tuberose, orange blossom, indole, methyl anthranilate, Hedione, linalool and other floral and fruity components. 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.

ISO 16128 status: Compliant.

Origin: 100% natural and plant-derived.

Renewable carbon fraction: 1.0 (100%).

IFRA status: No specific restrictions are known according to the supplied description; verify the current IFRA certificate before use in the finished product.

Nanomaterials: Contains no nanomaterials.

9. STORAGE AND SHELF LIFE

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

Recommended storage temperature: Maximum 30 °C.

Shelf life: 24 months under the prescribed storage conditions.

10. SAFETY INFORMATION

Benzyl Acetate Natural is intended for professional use in fragrances, cosmetic fragrance compositions 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.