

TECHNICAL DATA SHEET

ALLYL CYCLOHEXYL PROPIONATE

Synthetic fruity-tropical aroma chemical

1. RAW MATERIAL IDENTIFICATION

Product name	Allyl Cyclohexyl Propionate
Chemical name	2-Propenyl 3-cyclohexanepropanoate
INCI name	ALLYL CYCLOHEXYLPROPIONATE
CAS number	2705-87-5
EC / EINECS number	220-292-5
Molecular formula	C ₁₂ H ₂₀ O ₂
Molecular weight	196.29 g/mol
Raw material type	Synthetic aroma chemical - aliphatic-cyclic ester
Origin	Synthetic
Geographical origin	Not stated in the supplied TDS
ISO 16128	100% ingredients of non-natural origin

2. OLFACTORY CLASSIFICATION AND ODOUR PROFILE

Allyl Cyclohexyl Propionate belongs to the Fruity - Non Citrus olfactory family, with tropical, green and floral facets. It functions primarily as a middle note and contributes fullness, diffusion and persistence to fruity accords.

Its odour is intensely fruity and tropical, dominated by ripe pineapple, with green nuances and a mild floral character reminiscent of jasmine. It is especially suitable for pineapple accords, tropical compositions and fruity-floral structures.



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3. DESCRIPTION AND FUNCTION IN FRAGRANCE COMPOSITION

Allyl Cyclohexyl Propionate is a synthetic ester aroma chemical with a pronounced fruity-tropical character. Its odour profile is dominated by ripe pineapple, supported by green freshness and a mild floral nuance that gives tropical accords greater breadth and a more natural character. The supplied TDS describes its odour as pineapple with green and floral tones.

In a fragrance composition, it functions primarily as a middle note, contributing fullness, diffusion and persistence to fruity accords. Unlike highly volatile fruity esters that disappear quickly from the top notes, Allyl Cyclohexyl Propionate allows the pineapple character to remain perceptible as the heart of the composition develops.

It is particularly suitable for tropical and exotic fragrances and for pineapple reconstructions. Its gentle floral facet supports integration with jasmine and other white flowers, making it useful in fruity-floral and jasmine-tropical accords.

It combines well with other fruity esters, mango, passion fruit and citrus materials, as well as jasmine, neroli, white-floral notes and clean musks. In green formulas it enhances freshness, while in gourmand-fruity compositions it can add a juicier and fuller tropical character.

Because of its good diffusion and pronounced pineapple character, controlled dosing is recommended. At higher levels it may become predominantly fruity and impart an overly intense ester-like effect.

Functional role in perfumery: A diffusive fruity-tropical middle note and modifier that builds pineapple and exotic-fruit accords, improves their persistence and connects them with green, floral and musky elements.

4. APPLICATION AND OLFACTORY COMPATIBILITY

Recommended use in fragrances: For building tropical and fruity middle notes, particularly pineapple, exotic-fruit and fruity-floral accords.

It is used to create and modify:

- pineapple and tropical-fruit accords;
- fruity-floral compositions;
- jasmine-tropical accords;
- modern feminine fragrances;
- green-fruity structures;
- citrus-tropical compositions;
- gourmand-fruity accords;
- fragrances for cosmetic products.

It combines well with other fruity esters, pineapple, mango, passion fruit, citrus materials, jasmine, neroli, white-floral notes, green materials and clean musks.

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5. RECOMMENDED USE

Recommended use in fragrances	Tropical and fruity middle notes, especially pineapple, exotic-fruit and fruity-floral compositions
Typical concentrations	Not stated in the supplied TDS
IFRA status	Not stated in the supplied TDS; verify the current IFRA certificate for the relevant finished-product category

The concentration should be selected according to the desired intensity of the tropical-fruity effect. Gradual dosing is recommended because excessive levels may produce a dominant ester-like pineapple character.

6. PHYSICOCHEMICAL AND TECHNICAL DATA

Appearance	Liquid
Colour	Colourless
Odour	Pineapple, green and floral
Olfactory character	Juicy fruity-tropical character with pronounced pineapple, green freshness and a mild floral nuance
Density at 20/4 °C	0.947-0.952
Refractive index at 20 °C	1.457-1.462
Flash point	106 °C, closed cup
Purity	98.0-100.0%
Antioxidants	Contains no added antioxidants
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, tightly closed container and protected from light, heat and air. It combines well with other fruity esters and with tropical, green and floral materials, especially pineapple, mango, jasmine, white-floral, citrus and clean-musky accords. 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 derived from GMO raw materials.

Halal and Kosher status: Complies with Halal and Kosher requirements.

ISO 16128: 100% ingredients of non-natural origin.

Nanomaterials: Contains no nanomaterials.

BSE/TSE status: No BSE/TSE risk.

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

9. STORAGE AND SHELF LIFE

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

Storage temperature: Maximum 25 °C.

Shelf life: 24 months under the prescribed storage conditions.

10. SAFETY INFORMATION

Allyl Cyclohexyl Propionate is intended for industrial use in fragrances, cosmetics and flavour compositions. 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.