

TECHNICAL DATA SHEET

ALLYL AMYL GLYCOLATE

Synthetic fruity-green aroma chemical with a pronounced green pineapple and galbanum character

1. RAW MATERIAL IDENTIFICATION

Product name	Allyl Amyl Glycolate
Synonyms	Allyl (3-methylbutoxy)acetate; Allyl isoamyloxyacetate; Allyl isoamyl glycolate
INCI name	Isoamyl Allylglycolate
CAS number	67634-00-8
EC number	266-803-5
IUPAC name	Prop-2-enyl 2-(3-methylbutoxy)acetate
Molecular formula	$C_{10}H_{18}O_3$
Molecular weight	186.25 g/mol
Chemical group	Aliphatic ester
Raw material origin	Synthetic
Raw material category	Aroma chemical

2. OLFACTORY CLASSIFICATION AND ODOUR PROFILE

Fragrance note	Top to middle note
Primary olfactory family	Fruity – Non Citrus
Secondary olfactory family	Green
Odour profile	Intense, fruity and green, with pronounced green pineapple and galbanum nuances

Allyl Amyl Glycolate is a synthetic aroma chemical with a distinctive fruity-green odour profile. Its dominant olfactory feature is a fresh and penetrating green pineapple nuance, accompanied by facets of galbanum, green apple and unripe tropical fruit.

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3. DESCRIPTION AND FUNCTION IN FRAGRANCE COMPOSITION

Unlike sweeter fruity esters, this material produces a dry, sharp and distinctly green effect. It adds freshness, vitality and a sparkling fruity character while linking fruity notes with the green, aromatic and woody parts of a fragrance.

The initial effect develops in the top notes, while part of the green and fruity character remains present through the middle-note development. The material has considerable olfactory strength and may become sharp, rough and excessively galbanum-like at higher concentrations.

4. APPLICATION AND OLFATORY COMPATIBILITY

Allyl Amyl Glycolate is primarily used as a modifier of fruity and green accords. It is particularly valuable in pineapple accords, to which it gives a fresh, green and slightly unripe dimension. It may also be used in apple, pear, banana, strawberry and other tropical-fruit accords.

Suitable for:

- fruity and tropical compositions;
- green and galbanum accords;
- citrus-fruity fragrances;
- aromatic and fougère compositions;
- chypre and woody-green fragrances;
- fresh and marine compositions;
- men's fragrances and personal-care products;
- soaps, detergents and fabric softeners;
- air-care products.

It combines well with galbanum, cis-3-hexenol, cis-3-hexenyl acetate, citrus oils, fruity esters, dihydromyrcenol, linalool, lavender, jasmine materials, vetiver, patchouli and woody-amber aroma chemicals.

5. RECOMMENDED USE

Typical use level in fragrance concentrate	Approximately 0.01–1.00%
0.01–0.10%	Subtle fruity freshness and green lift
0.10–0.50%	Clearly expressed green pineapple and galbanum character
0.50–1.00%	Strong fruity-green effect in dedicated accords
Pre-dilution	10% solution in DPG or ethanol for easier and more precise dosing

The stated ranges are indicative perfumery use levels, not regulatory maximum concentrations. The permitted concentration in the finished product must be verified against the current IFRA Standard, the documentation of the specific manufacturer and the applicable finished-product category.

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6. PHYSICOCHEMICAL AND TECHNICAL DATA

Appearance	Clear liquid
Colour	Colourless to pale yellow
Odour	Intense, fruity and green, with pronounced pineapple and galbanum nuances
Relative density	Approximately 0.936-0.944
Refractive index	Approximately 1.428-1.434
Flash point	Approximately 88-94 °C
Solubility	Slightly soluble in water; soluble in ethanol, dipropylene glycol and other common perfumery solvents
Volatility	Moderate

The stated density, refractive-index and flash-point values are standard approximate ranges. Exact specifications, measurement temperatures and test methods are defined by the documentation of the specific manufacturer.

7. STABILITY AND FORMULATION COMPATIBILITY

The material is stable in most fragrance and functional formulations when stored correctly. Prolonged exposure to heat, moisture and strongly acidic or alkaline conditions may lead to gradual hydrolysis of the ester bond.

Compatibility, stability, colour and odour profile must be confirmed in the intended finished formulation and packaging. Particular attention should be paid to formulations with extreme pH values and products stored at elevated temperatures.

8. REGULATORY DATA AND STATUS

Intended use: Professional use in fragrance, cosmetic and functional fragrance formulations.

IFRA status: Apply the current IFRA requirements and restrictions for the relevant finished-product category.

Purity requirement: The free allyl alcohol content should be specifically controlled. According to the supplied information, it should not exceed 0.1%. Compliance must be confirmed by the specification or certificate of analysis issued by the specific manufacturer.

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9. STORAGE AND SHELF LIFE

Store in the original, tightly closed container in a cool, dry and dark place, protected from heat, moisture, direct sunlight and contact with air. Close the container immediately after use.

Shelf life: 24 months when stored under the recommended conditions.

10. SAFETY INFORMATION

Allyl Amyl Glycolate is a concentrated perfumery raw material intended for professional use. It is not used on its own as a finished fragrance product and must not be applied undiluted directly to the skin.

When handling the material:

- avoid contact with skin and eyes;
- avoid ingestion and inhalation of concentrated vapours;
- wear protective gloves and eye protection;
- work in a well-ventilated area;
- keep out of reach of children.

The material may be harmful if swallowed and may cause skin irritation. Final safety in use depends on the concentration, product category and total composition of the fragrance. Consult the current safety data sheet (SDS), IFRA documentation and manufacturer's specification before use.

Gradual hydrolysis during improper storage may increase the free allyl alcohol content. Correct storage and quality control are therefore particularly important.

11. DISCLAIMER

The information in this technical data sheet relates to the described raw material and is based on the supplied and standard reference technical data. Approximate physicochemical values and indicative use levels do not replace the specification, certificate of analysis, IFRA documentation or safety data sheet issued by the specific manufacturer.

The user is responsible for verifying the identity, purity, suitability, stability, safety and regulatory compliance of the material in the intended formulation, application and target market. This document does not constitute regulatory approval or a guarantee of the properties of the finished product.