

## TECHNICAL DATA SHEET

### C 09 NONYL ALDEHYDE

Synthetic citrus-aldehydic aroma chemical

#### 1. PRODUCT IDENTIFICATION

|                     |                                     |
|---------------------|-------------------------------------|
| Product name        | C 09 Nonyl Aldehyde                 |
| Raw material type   | Synthetic aldehydic aroma chemical  |
| Olfactory family    | Aldehydic, citrus                   |
| Position in perfume | Top note                            |
| Raw material origin | Synthetic                           |
| Ingredient category | Synthetic aroma chemical            |
| Primary application | Perfumes and fragrance compositions |

#### 2. OLFACTORY CLASSIFICATION AND ODOUR PROFILE

C 09 Nonyl Aldehyde is a synthetic aroma chemical from the citrus-aldehydic olfactory family, with a pronounced fresh and clean character. Its odour profile combines citrus freshness with typical aldehydic sharpness, while a mild fatty and waxy nuance provides additional body and characteristic texture.

#### 3. FUNCTION IN A FRAGRANCE COMPOSITION

It functions primarily as a top note, contributing brightness, diffusion and the classical aldehydic impression associated with floral-aldehydic perfumes. Its clean fatty aspect can soften the sharpness of citrus notes and connect them with the floral heart of a composition.

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### 4. APPLICATION AND COMPATIBILITY

The material is particularly suitable for floral-aldehydic compositions, chypre structures and clean citrus accords. In floral formulas, it works effectively with jasmine, rose, lily of the valley and other bright floral materials. In chypre compositions, it can support the relationship between a bright opening and deeper woody, mossy and ambery elements.

It blends well with bergamot, lemon and other citrus notes, as well as C8, C10 and other C-series aldehydes. It can be used with white musks, woody materials and clean aromatic components when increased clarity and diffusion are required.

### 5. RECOMMENDED USE

Recommended as a citrus-aldehydic modifier in floral-aldehydic, chypre and clean citrus compositions.

Owing to its high olfactory intensity, it should be used at low, precisely controlled levels. An exact typical concentration range was not specified in the technical data provided. Excessive dosage may accentuate the fatty-waxy and sharply aldehydic character, while low levels provide a clean, bright and elegant aldehydic effect.

### 6. PHYSICOCHEMICAL DATA

|                  |                                        |
|------------------|----------------------------------------|
| Appearance       | Liquid                                 |
| Colour           | Colourless to pale yellow              |
| Odour            | Citrus, aldehydic                      |
| Density          | 0.818-0.828 g/ml                       |
| Refractive index | 1.4220-1.4260                          |
| Flash point      | 82 °C                                  |
| Solubility       | Insoluble in water; soluble in ethanol |

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### 7. STABILITY

The product is stable under recommended storage conditions. Keep the container tightly closed and protect the material from light, heat and air. Specific storage conditions and temperature were not stated in the technical data provided. Stability, compatibility, colour and odour should be evaluated in the intended finished formulation and packaging.

### 8. REGULATORY AND STATUS INFORMATION

IFRA status: Use must comply with the current IFRA certificate and any restrictions applicable to the relevant finished-product category.

Vegan status: Vegan; does not contain ingredients of animal origin.

GMO status: Not specified in the technical data provided.

### 9. STORAGE AND SHELF LIFE

Storage conditions: Not specified in the technical data provided. Storage temperature: Not specified. Shelf life: Not specified.

### 10. SAFETY INFORMATION

The product is intended for professional use in perfumes and fragrance compositions. Avoid direct contact with the undiluted product. Refer to the current Safety Data Sheet (SDS) for hazard classification, safe handling, first-aid measures and disposal instructions.

### 11. DISCLAIMER

The information in this technical data sheet relates to the material described and is based on the technical data provided. The user is responsible for verifying suitability, stability, safety and regulatory compliance in the intended formulation and application. This document does not guarantee the properties of the finished product.