

## TECHNICAL DATA SHEET

### DIMETHYL HEPTANOL

Synthetic aliphatic alcohol with a fresh woody-floral character

#### 1. RAW MATERIAL IDENTIFICATION

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Product name          | Dimethyl Heptanol                             |
| Chemical name         | 2,6-Dimethylheptan-1-ol                       |
| INCI name             | 2,6-Dimethylheptanol                          |
| Synonyms              | Dimetol; Floretol; Freesia Heptanol; Freesiol |
| CAS number            | 13254-34-7                                    |
| EC / EINECS number    | 236-244-1                                     |
| Molecular formula     | C <sub>9</sub> H <sub>20</sub> O              |
| Molecular weight      | 144.26 g/mol                                  |
| Chemical group        | Aliphatic alcohol                             |
| Raw material origin   | Synthetic                                     |
| Geographical origin   | China                                         |
| Raw material category | Synthetic aroma chemical                      |
| ISO 16128             | 0% natural origin                             |

#### 2. OLFACTORY CLASSIFICATION AND ODOUR PROFILE

Dimethyl Heptanol belongs to the woody / amber / fresh-floral olfactory family and functions primarily as a middle note and modifier in fragrance compositions.

Its profile is clean and fresh, with a soft floral-lavender nuance, a mild woody tone, discreet amber warmth and a subtle terpenic background.



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### 3. DESCRIPTION AND FUNCTION IN FRAGRANCE COMPOSITIONS

Dimethyl Heptanol is a synthetic aroma chemical from the aliphatic alcohol group, characterised by a fresh, slightly woody and discreetly amber odour. Delicate floral-lavender and mildly terpenic nuances make it a versatile component for linking fresh middle notes with warmer woody and amber accords.

In fragrance compositions, it functions mainly as a middle note and modifier. Its role is to round out the structure, soften abrupt transitions between individual components and add fullness to woody and warm accords without becoming dominant.

It is particularly suitable for woody and amber compositions, where it provides a softer and more rounded structure. In fougère formulations, its fresh lavender character creates a natural transition between the aromatic heart and woody base, while in oriental structures it helps connect warm amber and woody materials.

It blends well with lavender, linalool, linalyl acetate and other fresh-floral materials, as well as sandalwood, cedar and amber notes. Combined with soft musks, it contributes to a cleaner and more rounded base.

Functional role in perfumery: A versatile modifier and linking component that improves balance, cohesion and the transition between fresh middle notes and the woody base.

### 4. APPLICATION AND OLFACTORY COMPATIBILITY

Recommended use in perfumery: As a modifier in woody, amber, oriental, fougère and floral-aromatic compositions, particularly for linking middle notes with a woody base.

It is used to create and modify:

- woody and amber accords;
- oriental fragrance compositions;
- fougère and lavender structures;
- fresh floral and floral-aromatic fragrances;
- sandalwood and cedar accords;
- soft musky-woody bases;
- warm compositions requiring a cleaner, fresher transition;
- fragrances for cosmetic and personal-care products.



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### 5. RECOMMENDED USE

|                       |                                                                           |
|-----------------------|---------------------------------------------------------------------------|
| Typical use level     | 0.5-3.0% in fragrance compositions                                        |
| Recommended TDS range | 0.1-5.0%                                                                  |
| Function              | Modifier and linking component in middle and base accords                 |
| IFRA status           | No restriction according to the supplied data for the 50th IFRA Amendment |

The concentration should be adjusted to the desired intensity and composition structure. The stated ranges are formulation recommendations and not regulatory maximum levels. The current IFRA certificate for the relevant finished-product category must be checked before use.

### 6. PHYSICOCHEMICAL AND TECHNICAL DATA

|                           |                                                                                                         |
|---------------------------|---------------------------------------------------------------------------------------------------------|
| Appearance                | Liquid                                                                                                  |
| Colour                    | Colourless to pale yellow                                                                               |
| Odour                     | Fresh, floral, lavender-like and woody                                                                  |
| Olfactory character       | Clean and fresh, with a mild floral-lavender nuance, a soft woody tone and a subtle terpenic background |
| Density at 20 °C          | 0.813-0.819                                                                                             |
| Density at 25 °C          | 0.810-0.816                                                                                             |
| Refractive index at 20 °C | 1.424-1.428                                                                                             |
| Flash point               | 68 °C, closed cup                                                                                       |
| Purity                    | 98.0-100.0%                                                                                             |
| Antioxidants              | No added antioxidants                                                                                   |
| Solubility                | Not specified in the supplied TDS                                                                       |

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### 7. STABILITY AND COMPATIBILITY

Stable under the prescribed storage conditions. According to the manufacturer's requirements, it must be stored under nitrogen with limited exposure to air, moisture and light. It is compatible with woody, amber, floral, lavender, fougère and aromatic materials. Compatibility, stability, colour and odour profile must be confirmed in the final formulation and intended packaging.

### 8. REGULATORY DATA AND STATUS

Vegan status: Vegan; no materials of animal origin are used in the manufacturing process.

GMO status: Does not contain GMO and is not derived from GMO raw materials.

Natural origin according to ISO 16128: 0%.

IFRA status: According to the supplied data, there are no restrictions under the 50th IFRA Amendment. The current IFRA certificate must be checked for the relevant application category.

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

Nanomaterials: Not applicable according to the supplied TDS. BSE/TSE status: No BSE/TSE risk.

Animal testing: The product has not been tested on animals. Palm oil: Does not contain palm oil, palm kernel oil or their derivatives.

### 9. STORAGE AND SHELF LIFE

Store under nitrogen in a tightly closed container, in a cool place protected from light, moisture and air.

Recommended storage temperature: Maximum 18 °C.

Shelf life: 24 months under the prescribed storage conditions.

### 10. SAFETY INFORMATION

Dimethyl Heptanol is intended for industrial and professional use as an ingredient in fragrance and cosmetic compositions. It must not be applied directly to the skin in concentrated form.

Use suitable protective gloves and eye protection. Avoid direct contact with skin and eyes and inhalation of vapour or aerosol. Handle in a well-ventilated area and follow the current safety data sheet of the specific product.

### 11. DISCLAIMER

The information applies exclusively to the raw material described and does not replace the specification, COA, IFRA documentation or safety data sheet of the specific manufacturer. The user is responsible for verifying suitability, stability, safety and regulatory compliance for the intended application and target market. This document does not constitute regulatory approval or a guarantee of the properties of the finished product.