



## TECHNICAL DATA SHEET

### DAMASCONE ALPHA

Highly diffusive synthetic rose ketone with floral-fruity depth

#### 1. RAW MATERIAL IDENTIFICATION

|                         |                                         |
|-------------------------|-----------------------------------------|
| Product name            | Damascone Alpha                         |
| INCI name               | TRANS-ROSE KETONE-1                     |
| CAS number              | 24720-09-0                              |
| Molecular formula       | $C_{13}H_{20}O$                         |
| Molecular weight        | 192.30 g/mol                            |
| Chemical group          | Damascone / rose ketone                 |
| Raw material type       | Synthetic aroma chemical                |
| Origin                  | Synthetic                               |
| Geographical origin     | India                                   |
| Raw material category   | Synthetic aroma chemical                |
| Olfactory family        | Rose / Fruity / Honeyed                 |
| Position in a fragrance | Middle note with pronounced persistence |

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### 2. OLFACTORY CLASSIFICATION AND ODOUR PROFILE

Odour profile: An intensely floral-fruity profile combining fresh rose, ripe plum and a discreet honeyed nuance, with the naturalness and depth characteristic of damascones.

Olfactory character: Extremely powerful and diffusive, with a dominant rose note, a plum facet and a soft honeyed tone.

Main applications: Rose reconstructions, sophisticated rose accords, floral-fruity compositions, plum and dark-fruit accords, and fragrances requiring greater naturalness and floral complexity.

### 3. RAW MATERIAL DESCRIPTION

Damascone Alpha is a synthetic aroma chemical from the damascone family, a group of so-called rose ketones whose naturally occurring analogues are associated with carotenoid degradation products. It is distinguished by exceptionally high olfactory intensity and a complex profile combining rose, ripe plum and discreet honeyed warmth.

Its floral component is reminiscent of fresh rose, but is not linearly rosy. The plum facet adds depth, while the soft honeyed aspect contributes roundness and a more natural character. This combination allows very small quantities to increase the complexity of floral and floral-fruity compositions significantly.

Alpha-damascone occurs naturally in trace amounts in Bulgarian rose and tobacco, which explains its importance in reconstructions of natural odour profiles. In rose accords it contributes authenticity, depth and a refined fruity facet that is difficult to achieve using geraniol, citronellol or phenylethyl alcohol alone.

In tobacco, woody and amber compositions it is used at very low levels to improve naturalness, fullness and olfactory continuity between floral, fruity and darker base elements.

Functional role in perfumery: Damascone Alpha acts as a highly powerful rose and dark-fruit modifier, adding diffusion, naturalness, depth and persistence to floral, fruity, tobacco, woody and amber structures.

### 4. APPLICATION AND OLFACTORY COMPATIBILITY

Damascone Alpha is suitable for creating and modifying:

- naturalistic rose and refined floral accords;
- floral-fruity and rose-fruity compositions;
- plum, blackcurrant and other dark-fruit accords;
- tobacco and honeyed floral structures;
- woody, amber and chypre compositions;
- fine fragrances requiring greater depth and complexity.

It combines particularly well with Rose Oxide, geraniol, citronellol, phenylethyl alcohol, beta-ionone, other damascones and damascenone. It also integrates effectively with jasmine materials, plum, blackcurrant, tobacco notes, woods and amber accords.

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### 5. RECOMMENDED USE

Recommended use in perfumes: As a powerful modifier in rose, floral-fruity, fruity, tobacco and complex amber compositions.

Typical concentration: Used at very low levels, often in the ppm range. A precise numerical range is not stated in the supplied description or TDS.

Dosing note: Accurate microdosing is essential because of its exceptionally high olfactory intensity. Even small concentration changes may significantly alter the final fragrance profile.

IFRA note: Before formulating the finished product, consult the current IFRA certificate and comply with any restrictions applicable to the relevant product category.

### 6. PHYSICOCHEMICAL AND TECHNICAL DATA

|                           |                                                                     |
|---------------------------|---------------------------------------------------------------------|
| Appearance                | Liquid                                                              |
| Colour                    | Colourless to pale yellow                                           |
| Odour                     | Floral, fruity                                                      |
| Olfactory character       | Powerful and diffusive rose-plum profile with a soft honeyed nuance |
| Density at 20 °C          | 0.931-0.941                                                         |
| Density at 25 °C          | 0.928-0.943                                                         |
| Refractive index at 20 °C | 1.494-1.498                                                         |
| Flash point               | >100 °C                                                             |
| Purity                    | 95.0-100.0%                                                         |
| Solubility                | Not stated in the supplied TDS                                      |

The specification values above are reproduced from the supplied technical information. Batch-specific conformity must be assessed against the applicable certificate of analysis.



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### 7. STABILITY AND FORMULATION COMPATIBILITY

Damascone Alpha requires cool storage under nitrogen, protected from air and light. Its stability, colour and odour performance must be confirmed in the intended finished formulation and packaging.

It is highly compatible with rose materials, ionones, other damascones, damascenone, jasmine components, fruit accords, tobacco notes, woody materials and amber structures. Because of its high potency, compatibility should be evaluated at the intended use level.

### 8. REGULATORY DATA AND STATUS

Intended use: Professional aroma chemical for perfumes, cosmetic fragrance compositions and flavours.

Vegan status: Vegan; contains no ingredients of animal origin.

GMO status: Does not contain GMO and is not derived from genetically modified organisms.

Halal / Kosher status: Halal and Kosher compatible, according to the supplied information.

Nanomaterials: No nanomaterials are stated in the supplied information; confirm against the current supplier declaration where required.

IFRA status: Verify the current IFRA certificate for the applicable finished-product category.

### 9. STORAGE AND SHELF LIFE

Store under nitrogen in the original, tightly closed container, in a cool place protected from air and light. Close the container immediately after use.

Recommended storage temperature: Maximum 18 °C.

Shelf life: 24 months under the specified storage conditions.

### 10. SAFETY INFORMATION

Damascone Alpha is a concentrated raw material intended for professional use. It must not be applied directly to the skin in undiluted form. Avoid contact with skin and eyes and avoid inhalation of vapour or aerosol. Use suitable protective gloves and eye protection and ensure adequate ventilation.

The current supplier SDS is authoritative for hazard classification, first-aid measures, handling, transport and disposal requirements.

### 11. DISCLAIMER

The information in this document applies only to the described raw material and does not replace the current supplier specification, certificate of analysis, IFRA documentation or SDS. The user is responsible for confirming identity, quality, 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 performance.