



TECHNICAL DATA SHEET

DAMASCONE BETA

Powerful synthetic rose ketone with a rich fruity-rosy character

1. RAW MATERIAL IDENTIFICATION

Product name	Damascone Beta
INCI name	TRANS-ROSE KETONE 2
CAS number	23726-91-2
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	China
Raw material category	Synthetic aroma chemical
Olfactory family	Rose / Fruity / Slightly woody
Position in a fragrance	Base note with a significant contribution to the heart

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2. OLFACTORY CLASSIFICATION AND ODOUR PROFILE

Odour profile: An intensely floral-fruity profile with golden rose and ripe plum tones, supported by a discreet woody nuance and mild spicy warmth. Compared with Damascone Alpha, its fruity-rosy character is fuller and more pronounced.

Olfactory character: Very powerful, deep and floral-fruity, with a dominant rose note, ripe plum, a soft woody facet and discreet spicy warmth.

Main applications: Rose reconstructions, floral-fruity compositions, sophisticated feminine fragrances, amber-rose accords, and compositions with plum and other dark-fruit nuances.

3. RAW MATERIAL DESCRIPTION

Damascone Beta is a synthetic aroma chemical from the damascone family, a group of powerful floral-fruity ketones with an important role in reconstructing the natural character of rose. Its profile combines a pronounced rose note with ripe plum, mild woody depth and discreet spicy warmth.

Compared with Damascone Alpha, Damascone Beta provides a fuller and more pronounced fruity-rosy effect. The plum facet is stronger, while the rose character appears warmer and more mature. At very low concentrations, this balance significantly increases the naturalness and complexity of a fragrance composition.

It is particularly valuable in rose reconstructions. In combination with geraniol, citronellol, phenylethyl alcohol, Rose Oxide, beta-ionone and other damascones, it enables the construction of more complex and natural rose structures. With damascenone, it further develops depth, fruitiness and the character of a mature rose.

Its fruity dimension performs especially well with plum, blackcurrant, raspberry and other dark-fruit tones. In amber-rose accords, the mild spicy warmth connects rose with labdanum, benzoin, patchouli, sandalwood and other warm base materials.

Functional role in perfumery: Damascone Beta acts as a high-impact modifier that strengthens the naturalness, depth and continuity of rose, floral-fruity, dark-fruit, woody and amber structures.

4. APPLICATION AND OLFACTORY COMPATIBILITY

Damascone Beta 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;
- sophisticated feminine fragrances;
- woody, amber and chypre compositions;
- fine fragrances requiring greater depth and complexity.

It combines particularly well with geraniol, citronellol, phenylethyl alcohol, Rose Oxide, beta-ionone, damascenone and other damascones. It also integrates effectively with plum, blackcurrant, raspberry, spicy materials, labdanum, benzoin, patchouli, sandalwood and amber accords.

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5. RECOMMENDED USE

Recommended use in perfumes: As a powerful modifier in rose, floral-fruity, amber, woody and dark-fruit compositions.

Typical concentration: Used at very low levels because of its exceptionally high olfactory intensity. A precise range is not stated in the supplied description or TDS.

Dosing note: Microdosing and gradual evaluation in the final composition are recommended. Higher levels may rapidly dominate the floral-fruity 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 deep rose-plum profile with mild woody and spicy facets
Density at 20 °C	0.934-0.942
Refractive index at 20 °C	1.496-1.501
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 Beta remains stable under the specified storage conditions when protected from air and light. Its stability, colour and odour performance must be confirmed in the intended finished formulation and packaging.

It is compatible with rose materials, damascenone, other damascones, ionones, fruit components, spices, 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.

Halal / Kosher status: Not stated in the supplied TDS; confirm against the current supplier declaration.

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 at room temperature in the original, full and hermetically sealed container, protected from air and light. Close the container immediately after use.

Recommended storage temperature: Maximum 25 °C.

Shelf life: 24 months under the specified storage conditions.

10. SAFETY INFORMATION

Damascone Beta 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.