



CERTIFICATE OF ANALYSIS (COA)

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Damascone Alpha

PRODUCT INFORMATION

Product Name: Damascone Alpha
Manufacturer Product Name: DAMASCONE ALPHA
Manufacturer: Firmenich / dsm-firmenich
Manufacturer Product Code: 937470

Chemical Name: 2-Buten-1-one, 1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-, (E)-
CAS Number: 24720-09-0
EC Number: 246-430-4
REACH Number: 01-2120105799-47
FEMA Number: 3659

Molecular Formula: C₁₃H₂₀ O
Molecular Weight: 192 g/mol
Product Type: Synthetic Fragrance Ingredient / Rose Ketone
Olfactive Family: Fruity / Floral
Olfactive Profile: Rose • Apple • Fruity • Floral • Coniferous

The current dsm-firmenich product page identifies Damascone Alpha 937470 as a synthetic molecule with apple, rose and coniferous descriptors. Firmenich describes it as a highly diffusive fruity-floral rose ketone with an apple effect, rose-petal nuances and a plum undertone.

QUALITY SPECIFICATIONS

Test	Specification	Result
Appearance	Liquid	Conforms
Colour	Colourless to Pale Yellow	Conforms
Odour	Firmenich Standard / Characteristic Fruity-Floral Rose-Apple	Conforms



Test	Specification	Result
Specific Gravity (d20/20)	0.932 – 0.938	Conforms
Specific Gravity (d25/25)	0.929 – 0.935	Conforms
Refractive Index (nD20)	1.494 – 1.498	Conforms
Refractive Index (nD25)	1.492 – 1.496	Conforms
Purity by GLC – Sum of Cis & Trans Alpha Isomers	90.0 – 100.0%	Conforms
Flash Point – Closed Cup	>100°C / >212°F	Conforms

These acceptance ranges come from the available Firmenich product specification for item 937470.

ADDITIONAL PRODUCT INFORMATION

Stabilizer: Vitamin E / Alpha-Tocopherol – 0.0500%

Storage Conditions: Dry area, unopened containers, optimum temperature 11–25°C

Shelf Life: 18 months under the conditions specified in the product specification.

The current dsm-firmenich product information reports a flash point of 100°C, molecular weight 192, and identifies the material as a synthetic molecule.

OLFACTIVE CHARACTERISTICS

Damascone Alpha is a highly diffusive and distinctive fruity-floral rose ketone.

Primary Notes: Rose • Apple

Secondary Notes: Blackcurrant • Plum • Coniferous

Character: Fruity • Floral • Diffusive • Rosy

It is particularly useful for adding body, volume and a distinctive fruity apple/rose character to floral and rose accords.

QUALITY ASSESSMENT

Appearance: PASS

Colour: PASS

Odour: PASS

Specific Gravity: PASS

Refractive Index: PASS

Purity: PASS

OVERALL RESULT: CONFORMS



STATEMENT OF CONFORMITY

Aromology certifies that Damascone Alpha – Firmenich – Rose Apple, CAS 24720-09-0, conforms to the specifications stated above.

The specifications are based on the available manufacturer product specification for Firmenich Damascone Alpha 937470. Since no batch-specific manufacturer COA was supplied, the numerical entries above are product specifications rather than invented batch analytical results.

Authorised by:

Fozia Khot
Director