



CERTIFICATE OF ANALYSIS (COA)

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PRODUCT INFORMATION

Item	Details
Product Name	French Rose Oil Otto
Alternative Names	Rose Otto Essential Oil, Damask Rose Essential Oil
Botanical Name	<i>Rosa damascena</i> Mill.
INCI Name	Rosa Damascena Flower Oil
CAS Number	8007-01-0
EC Number	290-260-3
Country of Origin	France
Plant Part	Fresh flowers and petals
Extraction Method	Steam distillation or hydrodistillation
Product Type	100% pure and natural essential oil
Product Grade	Professional perfumery and cosmetic grade
Batch Number	FRO-FR-0626
Manufacturing Date	10 June 2026
Issue Date	17 July 2026
Retest Date	10 June 2029

2. ORGANOLEPTIC AND PHYSICOCHEMICAL ANALYSIS

Parameter	Specification	Representative Result	Status
Appearance	Clear mobile liquid; may crystallise at lower temperatures	Clear mobile liquid	Pass
Colour	Colourless to pale yellow or pale yellow-green	Pale yellow	Pass
Odour	Rich, fresh, sweet and characteristic rose	Characteristic	Pass



	aroma		
Relative Density at 20°C	0.840–0.880	0.857	Pass
Refractive Index at 20°C	1.452–1.470	1.460	Pass
Optical Rotation at 20°C	–5.0° to +2.0°	–1.3°	Pass
Congeeing Behaviour	May become cloudy, viscous or partially crystalline at cool temperatures	Complies	Pass
Solubility in Water	Insoluble or practically insoluble	Insoluble	Pass
Solubility in Alcohol	Soluble or partly soluble, depending on concentration and temperature	Complies	Pass
Flash Point	Not less than approximately 70°C	78°C	Pass
Acid Value	Maximum 3.0 mg KOH/g	1.2 mg KOH/g	Pass
Peroxide Value	Maximum 10.0 meq O ₂ /kg	2.8 meq O ₂ /kg	Pass
Foreign Matter	Free from visible foreign matter	None observed	Pass
Added Solvents	Not permitted	Not detected	Pass
Added Carrier Oils	Not permitted	Not detected	Pass
Added Preservatives	Not permitted	Not detected	Pass
Purity	100% pure and natural essential oil	Complies	Pass

The values shown are representative of steam-distilled French *Rosa damascena* oil and must not replace actual batch testing.

3. REPRESENTATIVE GC–MS COMPOSITION

Constituent	CAS Number	Typical Range	Representative Result
Citronellol	106-22-9	20.00–45.00%	32.40%
Geraniol	106-24-1	10.00–25.00%	18.65%
Nonadecane	629-92-5	5.00–18.00%	11.20%
Nerol	106-25-2	5.00–12.00%	8.45%
Heneicosane	629-94-7	2.00–8.00%	5.10%
Heptadecane	629-78-7	0.50–4.00%	2.35%
Phenethyl Alcohol	60-12-8	Trace–3.00%	1.60%
Linalool	78-70-6	Trace–3.00%	1.25%
Farnesol	4602-84-0	Trace–2.00%	1.10%
Eugenol	97-53-0	Trace–2.00%	0.82%



Methyl Eugenol	93-15-2	Trace-2.00%	0.39%
Limonene	138-86-3	Trace-1.00%	0.48%
Citral	5392-40-5	Trace-0.50%	0.14%
Benzyl Alcohol	100-51-6	Trace-0.50%	0.12%
Other naturally occurring constituents	—	Balance	15.95%
Total	—	—	100.00%

The chemical composition of natural rose oil varies according to cultivar, climate, flower maturity, harvesting conditions, storage before distillation and the distillation process.

4. MICROBIOLOGICAL STATUS

As an anhydrous steam-distilled essential oil, the product does not normally support microbial growth.

Parameter	Specification	Result
Total Aerobic Microbial Count	Not routinely applicable to an anhydrous essential oil	Conforms
Yeast and Mould	Not routinely applicable to an anhydrous essential oil	Conforms
Pathogenic Microorganisms	Not expected under correct manufacturing and storage conditions	Conforms

5. QUALITY AND PURITY DECLARATION

The material described in this certificate:

- Is obtained from fresh *Rosa damascena* flowers by steam distillation or hydrodistillation.
- Contains no intentionally added synthetic fragrance materials.
- Contains no intentionally added carrier oil, diluent or solvent.
- Contains no intentionally added colourant or preservative.
- Is suitable for professional perfumery and cosmetic formulation.
- Is not intended for internal consumption.
- Must be evaluated in the intended finished formulation before commercial use.

6. CONCLUSION



THE REPRESENTATIVE BATCH COMPLIES WITH THE ABOVE SPECIFICATIONS

7. STORAGE AND SHELF LIFE

Store in the original, tightly closed container in a cool, dry and well-ventilated place.

Protect from:

- Direct sunlight
- Heat
- Moisture
- Air exposure
- Strong oxidising substances
- Sources of contamination

Rose Otto may become cloudy, viscous or partially crystalline at cool temperatures because of its naturally occurring long-chain hydrocarbons. Gentle warming to room temperature normally restores homogeneity without affecting quality.

Recommended shelf life: 36 months from the manufacturing date when stored correctly.

Authorised by:

Fozia Khot

Director