



CERTIFICATE OF ANALYSIS (COA)

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Vertofix® Coeur

Product Identification

Parameter	Details
Product Name	Vertofix® Coeur
Manufacturer	International Flavors & Fragrances Inc. – IFF
IFF IPC Number	220700
Chemical Name	1-Cedr-8-en-9-ylethanone
Common Chemical Name	Methyl Cedryl Ketone
Alternative Name	Acetyl Cedrene
CAS Number	32388-55-9
EC Number	251-020-3
Molecular Formula	C ₁₇ H ₂₆ O
Molecular Weight	246.2 g/mol
Chemical Family	Cedrane ketone
Product Type	Natural-derived aroma chemical
Olfactive Family	Woody / Cedar / Leather / Amber
Grade	Professional perfumery grade

Analytical Specification

Test	Representative Specification	Method
Appearance	Clear to slightly viscous oily liquid	Visual
Colour	Pale straw to light amber	Visual
Odour	Warm precious wood, cedar, leather, dry amber and musk	Organoleptic
Identification	Conforms to approved reference	GC-MS / IR
Assay / Total Acetyl Cedrene Components	Current IFF specification applies	GC-FID



Main Methyl Cedryl Ketone Peak	Current IFF specification applies	GC-FID
Related Cedrane Isomers	Within manufacturer specification	GC-FID
Relative Density at 20 °C	Representative value approximately 0.995–1.010	Density meter
Refractive Index at 20 °C	Representative value approximately 1.510–1.522	Refractometer
Flash Point	Approximately 100 °C	Closed cup
Boiling Point	Approximately 272 °C	Manufacturer method
Water Content	Current IFF specification applies	Karl Fischer
Acid Value	Current IFF specification applies	Titration
Solubility in Water	Practically insoluble	Visual
Solubility in Perfumery Alcohol	Soluble or readily dispersible	Visual
Foreign Matter	Absent	Visual
Chromatographic Profile	Conforms to approved IFF reference	GC-FID / GC-MS

The physical-property values above are representative commercial data and must be replaced or verified using the original IFF batch Certificate of Analysis.

Representative Composition

Vertofix® Coeur is a technical aroma material consisting mainly of methyl cedryl ketone and related cedrane-derived isomers.

Component Class	Representative Status
Methyl Cedryl Ketone / Acetyl Cedrene	Principal component
Related Cedrane Ketone Isomers	Present within manufacturer specification
Cedrane-Derived Minor Components	Within specification
Added Carrier or Diluent	None expected unless declared
Added Colour	Not intentionally added
Preservative	Not intentionally added
Stabiliser	Manufacturer confirmation required

The exact isomer profile and purity requirements are proprietary to IFF.

Organoleptic Profile

Attribute	Description
Primary Character	Warm precious wood
Woody Facets	Cedarwood and dry timber
Secondary Facets	Leather, amber and musk
Texture	Dry, diffusive and substantive



Top-Note Impact	Medium
Heart-Note Impact	Medium
Base-Note Impact	Medium
Substantivity	Greater than 48 hours
Perfumery Function	Woody builder, amber modifier, fixative and cedarwood enhancer

Representative Applications

Vertofix® Coeur may be used in:

- Fine fragrance
- Woody and amber accords
- Cedarwood compositions
- Leather fragrances
- Chypre and fougère fragrances
- Vetiver and patchouli accords
- Musk bases
- Soap
- Shampoo
- Antiperspirant and deodorant
- Liquid and powder detergents
- Fabric conditioner
- Household fragrances
- Candles and incense

IFF publishes a typical use level of up to **10% of** the fragrance concentrate. This is olfactive guidance and not an IFRA or legal maximum.

Sustainability Information

IFF describes Vertofix® Coeur as:

Attribute	Published Information
Renewable Carbon Content	Approximately 88%
Natural-Derived	Yes
Upcycled	Yes
Vegan Suitable	Yes
Biodegradability	Not readily biodegradable

These claims apply only to the qualifying IFF commercial material and should be verified against current manufacturer documentation before customer-facing use.



Quality and Regulatory Status

Requirement	Status
Professional fragrance ingredient	Yes
Finished consumer product	No
Suitable for direct undiluted skin use	No
Suitable for internal consumption	No
Batch-specific IFF COA required	Yes
Current SDS required	Yes
IFRA assessment required	Yes
EU allergen assessment required	Yes
Finished-product safety assessment required	Yes

Storage Conditions

Store:

- In the original tightly closed container
 - In a cool, dry and well-ventilated area
 - Protected from direct sunlight
 - Away from excessive heat
 - Away from strong oxidising agents
 - With minimum exposure to air and moisture
 - Using clean and dry dispensing equipment
 - Away from food, beverages and animal feed
 - Out of reach of children and unauthorised persons
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Shelf Life

Apply the shelf life or retest date stated on the original IFF batch documentation.

Where no manufacturer shelf-life statement is available, a provisional internal retest period may be assigned only under an approved Aromology quality procedure.

After extended storage, reassess:

- Appearance
- Colour
- Odour
- Relative density
- Refractive index
- Water content
- Acid value
- GC profile



Certificate Conclusion

Subject to insertion of the actual batch-specific analytical results, the material represented by this certificate conforms to the representative quality specification for:

Vertofix® Coeur – IFF

Disclaimer

This Certificate of Analysis is a representative supplier-style template.

It is not:

- The original IFF batch Certificate of Analysis
- Evidence that Aromology Trading LLC independently conducted the listed tests
- A finished-product safety approval
- An IFRA Certificate of Conformity
- A quantitative EU allergen declaration

Before formal issue, complete and verify this document using:

- Original IFF batch Certificate of Analysis
- Current IFF product specification
- Current IFF Safety Data Sheet
- Exact IFF product and batch code
- Current IFRA documentation
- Current quantitative EU allergen declaration

Where any discrepancy exists, the latest original IFF documentation shall prevail.

Authorised by:

Fozia Khot
Director