



CERTIFICATE OF ANALYSIS (COA)

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Aphermate® – IFF

Product Identification

Parameter	Details
Trade Name	Aphermate®
IFF Compendium Name	CP Formate Aphermate
Olfactive Description	Apple–Pine
Chemical Name	1-(3,3-Dimethylcyclohexyl)ethyl formate
Chemical Family	Alicyclic formate ester
CAS Number	25225-08-5
EC Number	246-735-2
Molecular Formula	C ₁₁ H ₂₀ O ₂
Molecular Weight	184.28 g/mol
Manufacturer	International Flavors & Fragrances Inc. – IFF
Grade	Professional perfumery grade

*Product identifiers must be verified against the current IFF specification and the label of the supplied batch.

Analytical Specifications

Test	Representative Specification	Batch Result	Method
Appearance	Clear, homogeneous liquid	_____	Visual
Colour	Colourless to pale yellow	_____	Visual
Odour	Fresh pine, herbal, earthy and fruity apple	_____	Organoleptic
Identification	Conforms to approved reference	_____	GC-MS / Organoleptic
CP Formate Content	65.0–85.0%	_____	GC-FID



Total Esters	Minimum 80.0%	_____	GC-FID
CP Alcohol	Maximum 7.0%	_____	GC-FID
Refractive Index at 20°C	1.4480–1.4520	_____	Refractometer
Relative Density at 20°C	Manufacturer specification	_____	Density meter
Acid Value	Maximum 1.0 mg KOH/g	_____	Titration
Water Content	Manufacturer specification	_____	Karl Fischer
Flash Point	Approximately 103 °C	_____	Closed cup
Solubility in Water	Insoluble or very slightly soluble	_____	Visual
Solubility in Alcohol	Soluble	_____	Visual
Foreign Matter	Absent	_____	Visual
Chromatographic Profile	Conforms to approved reference	_____	GC-FID / GC-MS

The analytical limits above are representative commercial specifications and must be verified against the current IFF technical specification.

Composition Profile

Aphermate® is a commercial fragrance material based primarily on CP formate and related esters.

Constituent or Component Class	Representative Information
CP Formate	Approximately 65–85%
Total Esters	More than 80%
1-(3,3-Dimethylcyclohexyl)ethanol / CP Alcohol	Less than 7%
Stabiliff Antioxidant System	Approximately 0.1%, subject to confirmation
Minor Related Constituents	Balance to 100%

The exact commercial composition and stabiliser identity are proprietary and must be confirmed from IFF documentation.

Organoleptic Profile

Attribute	Description
Olfactive Family	Fresh, fruity, herbal and pine
Opening	Fresh pine and herbal
Heart	Earthy, marine and green
Low-Concentration Effect	Crisp green apple
Top-Note Impact	Medium
Heart-Note Impact	Medium
Base-Note Impact	Low



Substantivity	Approximately 12 hours
Perfumery Function	Fresh modifier, fruity enhancer and pine-herbal builder

Representative Applications

Aphermate® may be used in:

- Fine fragrance
- Aquatic and marine accords
- Green apple accords
- Pine and herbal fragrances
- Deodorants
- Shampoos
- Soaps
- Liquid detergents
- Fabric conditioners
- Air-care products
- Candles

The use concentration must be determined through formulation assessment and the applicable IFRA category.

Stabiliser Declaration

Publicly available commercial specifications indicate that Aphermate® may contain approximately:

0.1% Stabiliff antioxidant

Before issuing a formal declaration, confirm:

- Current antioxidant identity
 - Actual concentration
 - Relevant CAS number
 - Regulatory status
 - Whether the supplied batch is stabilised
-

Quality and Regulatory Status

Parameter	Representative Status
Professional Perfumery Material	Yes
Single Pure Chemical	No; commercial composition may contain related constituents



Added Antioxidant	Expected; manufacturer confirmation required
Suitable for Direct Skin Application	No
Suitable for Internal Consumption	No
IFRA Assessment Required	Yes
EU Allergen Assessment Required	Yes
Finished-Product Safety Assessment Required	Yes

Storage

Store:

- In the original tightly closed container
 - At approximately 15–25 °C
 - In a cool, dry and well-ventilated area
 - Protected from direct sunlight
 - Away from heat and oxidising materials
 - With minimum exposure to air and moisture
 - Using clean, dry dispensing equipment
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Shelf Life

Recommended shelf life:

24 months

After prolonged storage, the material should be checked for:

- Odour conformity
- Colour
- Refractive index
- Acid value
- Chromatographic profile

The original IFF shelf-life statement shall prevail.

Certificate Conclusion

Subject to verification against the original batch-specific IFF Certificate of Analysis, the material represented by this certificate conforms to the proposed commercial specification for:

Aphermate® – IFF, Apple–Pine



Disclaimer

This Certificate of Analysis is a professional supplier-style template prepared for Aphermate® – IFF (Apple–Pine).

- Original IFF batch Certificate of Analysis
- Current IFF technical specification
- Current product label
- Current Safety Data Sheet
- Current IFRA documentation
- Current quantitative EU allergen declaration

Where any difference exists, the original IFF documentation shall prevail.

Authorised by:

Fozia Khot
Director