



CERTIFICATE OF ANALYSIS (COA)

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Bornafix® – IFF

Product Identification

Parameter	Details
Product Name	Bornafix®
Manufacturer	International Flavors & Fragrances Inc. – IFF
IFF IPC Number	21067
Chemical Name	2-Methyl-3-({1,7,7-trimethylbicyclo[2.2.1]heptan-2-yl}oxy)propan-1-ol
CAS Number	128119-70-0
Molecular Formula	C ₁₄ H ₂₆ O ₂
Molecular Weight	226.4 g/mol
Chemical Family	Bicyclic ether alcohol
Olfactive Family	Amber / Woody
Grade	Professional perfumery grade

Analytical Specification

Test	Representative Specification	Batch Result	Method
Appearance	Clear, homogeneous liquid	_____	Visual
Colour	Colourless to pale yellow	_____	Visual
Odour	Warm woody, dry amber and cedarwood; conforms to standard	_____	Organoleptic
Identification	Conforms to approved reference	_____	GC-MS / IR
Assay / GC Purity	Current IFF specification applies	_____	GC-FID
Relative Density at 20°C	Current IFF specification applies	_____	Density meter
Refractive Index at 20°C	Current IFF specification applies	_____	Refractometer
Acid Value	Current IFF specification applies	_____	Titration
Water Content	Current IFF specification applies	_____	Karl Fischer



Flash Point	Current IFF SDS applies	_____	Closed cup
Solubility in Water	Limited / manufacturer specification	_____	Visual
Solubility in Alcohol	Soluble or dispersible in perfumery alcohol	_____	Visual
Foreign Matter	Absent	_____	Visual
Chromatographic Profile	Conforms to approved reference	_____	GC-FID / GC-MS

The exact numerical limits and batch results must be taken from the original IFF specification and batch Certificate of Analysis.

Organoleptic Profile

Attribute	Description
Primary Character	Warm woody and dry amber
Secondary Character	Cedarwood-like
Effect	Substantive, dry, elegant and supportive
Top-Note Impact	Medium
Heart-Note Impact	Low
Base-Note Impact	Low
Substantivity	Greater than 72 hours
Perfumery Function	Woody-complex builder, amber modifier and floral support material

Representative Applications

Bornafix® may be used in:

- Fine fragrance
- Woody and amber compositions
- Cedarwood accords
- Floral fragrances
- Soap
- Shampoo
- Antiperspirant and deodorant
- Liquid detergent
- Powder detergent
- Fabric conditioner
- Candles
- Household fragrance products

IFF publishes a typical use level of up to 20%. This is formulation guidance and must not be interpreted as an IFRA or regulatory maximum.



Sustainability Information

IFF publicly identifies Bornafix® as:

Attribute	Published Information
Renewable Carbon Content	Approximately 71% renewable
Natural-Derived	Yes
Upcycled Content or Process	Identified by IFF as upcycled
Vegan Suitable	Yes
Biodegradability	Inherently biodegradable

These sustainability claims must be verified against the current IFF documentation before they are reproduced on customer-facing certificates.

Quality and Regulatory Status

Requirement	Status
Professional fragrance ingredient	Yes
Finished consumer product	No
Suitable for direct undiluted skin application	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 heat and ignition sources
 - Away from strong oxidising agents
 - With minimum unnecessary 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



The shelf life must be taken from the original IFF product documentation.

Where no manufacturer statement is available, do not issue a definitive expiry date. A provisional internal retest period may be applied only under an approved Aromology quality procedure.

After extended storage, reassess:

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

Certificate Conclusion

Subject to completion with the original batch-specific IFF analytical data, the material represented by this certificate conforms to the applicable specification for:

Bornafix® – IFF

Disclaimer

This is a representative supplier-style Certificate of Analysis. It is not the original IFF batch Certificate of Analysis.

Before formal issue, complete and verify this document using:

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

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

Authorised by:

Fozia Khot
Director