



CERTIFICATE OF ANALYSIS (COA)

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Aquaflora TOCO™

Product Identification

Parameter	Details
Product Name	Aquaflora TOCO™
IFF Compendium Name	Aquaflora™
Manufacturer	International Flavors & Fragrances Inc. – IFF
IFF IPC Number	134635
IFF Product Code	00134635
Chemical Name	4,7-Methano-1H-indene-5-acetaldehyde, octahydro-
CAS Numbers	1339119-15-1 / 1338815-87-4
Molecular Formula	C ₁₂ H ₁₈ O
Molecular Weight	178 g/mol
Chemical Family	Polycyclic aldehyde
Product Grade	Professional perfumery grade
Stabilised Grade	TOCO grade containing antioxidants

Analytical Specification

Test	IFF Representative Specification	Batch Result	Method
Appearance	Clear liquid	_____	Visual
Colour	Colourless to pale yellow	_____	Visual
Odour	Conforms to approved standard	_____	Organoleptic
Identification	Conforms to reference	_____	GC-MS / IR
Relative Density D20/4	1.0160–1.0230	_____	Density meter
Relative Density D20/20	1.0178–1.0248	_____	Density meter
Relative Density	1.0148–1.0218	_____	Density meter



D25/25

Refractive Index at 20°C	1.4970–1.5110	_____	Refractometer
GC Section Sum	97.00–100.00%	_____	GC-FID
Flash Point	Approximately 118°C	_____	Closed cup
Water Solubility	Approximately 0.0596 g/L at 20°C	_____	Manufacturer data
Foreign Matter	Absent	_____	Visual
Chromatographic Profile	Conforms to approved reference	_____	GC-FID / GC-MS

Typical Stabiliser System

Stabiliser	Typical Concentration
Tocopherol	Approximately 0.05%
Stabiliff antioxidant	Approximately 0.05%

The identity and concentration of Stabiliff must be confirmed from the current IFF composition statement.

Organoleptic Profile

Attribute	Description
Olfactive Family	Floral, aquatic and muguet
Primary Character	Powerful floral muguet
Fresh Facets	Green, watery and aquatic
Secondary Character	Cyclamen-like and transparent
Top-Note Impact	High
Heart-Note Impact	Medium
Base-Note Impact	Medium
Substantivity	Greater than 48 hours
Perfumery Function	Aquatic floral builder, muguet enhancer and fragrance-body booster

Representative Applications

Aquaflora TOCO may be used in:

- Fine fragrance
- Aquatic and marine accords
- Muguet accords
- Cyclamen compositions
- Transparent fresh florals
- Shampoo



- Soap
- Deodorant
- Fabric conditioner
- Liquid detergent
- Air-care products
- Candles

IFF's published typical use level of up to 5% is olfactory guidance and is not an IFRA limit.

Quality Status

Requirement	Status
Professional fragrance ingredient	Yes
Finished cosmetic product	No
Suitable for direct undiluted skin use	No
Suitable for internal consumption	No
Contains antioxidant system	Yes
Batch-specific IFF COA 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
 - At approximately 10–21 °C
 - In a cool, dark and dry area
 - Protected from direct sunlight
 - Away from heat and oxidising agents
 - With the container headspace purged with nitrogen where practical
 - Using clean and dry dispensing equipment
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Shelf Life

Manufacturer representative shelf life:

12 months

Quality should be reassessed before use after extended storage.



Recommended reassessment parameters include:

- Appearance
- Colour
- Odour
- Relative density
- Refractive index
- GC profile
- Antioxidant condition

Certificate Conclusion

Subject to completion using the original batch-specific IFF Certificate of Analysis, the material represented by this certificate conforms to the applicable specification for:

Aquaflora TOCO™ – IFF

Disclaimer

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

Before formal issue, insert the actual results from:

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

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

Authorised by:

Fozia Khot
Director