



CERTIFICATE OF ANALYSIS (COA)

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Helional®

Product Identification

Parameter	Details
Product Name	Helional®
Manufacturer	International Flavors & Fragrances Inc. – IFF
IFF IPC Number	82322
Chemical Name	3-(1,3-Benzodioxol-5-yl)-2-methylpropanal
Alternative Chemical Name	Alpha-Methyl-1,3-benzodioxole-5-propanal
Common Name	Ocean Propanal
CAS Number	1205-17-0
EC Number	214-881-6
REACH Registration Number	01-2120740119-58
Molecular Formula	C ₁₁ H ₁₂ O ₃
Molecular Weight	Approximately 192.21 g/mol
Chemical Family	Aromatic aldehyde
Product Type	Multi-constituent fragrance substance
Grade	Professional perfumery grade

IFF describes Helional as a green floral cyclamen ingredient with ozone and freshly cut hay notes.

Analytical Specification

Test	Representative Specification	Method
Appearance	Clear homogeneous liquid	Visual
Colour	Colourless to pale yellow	Visual
Odour	Green floral, cyclamen, ozonic, watery and hay-like	Organoleptic
Identification	Conforms to approved reference	GC-MS / IR
Assay / Main Substance	90.0–100.0% technical material	GC-FID



Relative Density at 20°C	1.161–1.169	Density meter
Refractive Index at 20°C	Current IFF specification applies	Refractometer
Flash Point	Approximately 144°C	Closed cup
Water Solubility	Insoluble	Visual
Log Pow	Approximately 1.37–1.40	Manufacturer data
Vapour Pressure at 23°C	Approximately 0.000288 mm Hg	Manufacturer data
Water Content	Current IFF specification applies	Karl Fischer
Acid Value	Current IFF specification applies	Titration
Foreign Matter	Absent	Visual
Chromatographic Profile	Conforms to approved reference	GC-FID / GC-MS

Current safety documentation reports a relative density of 1.161–1.169, flash point of approximately 144.3°C, and a technical concentration of 90–100%.

Representative Composition

Component	CAS Number	Representative Concentration
Alpha-Methyl-1,3-benzodioxole-5-propanal	1205-17-0	90–100%
Related Isomers and Manufacturing Constituents	Proprietary	Within manufacturer specification
Added Carrier or Diluent	—	None expected unless declared
Added Antioxidant	—	Manufacturer confirmation required

Helional is treated as a multi-constituent technical substance rather than a guaranteed single-isomer analytical standard.

Organoleptic Profile

Attribute	Description
Olfactive Family	Floral, aquatic and green
Primary Character	Cyclamen and muguet-like floral
Fresh Facets	Ozone, water and marine air
Green Facets	New-mown hay and leafy freshness
Fruity Nuance	Soft melon-like undertone
Top-Note Impact	Medium
Heart-Note Impact	Medium
Base-Note Impact	Low
Substantivity	Greater than 48 hours
Function	Aquatic floral builder, diffuser and fresh accord modifier

Regulatory and Safety Status



Requirement	Status
Professional fragrance ingredient	Yes
Finished consumer product	No
Skin sensitiser classification	Yes
Reproductive Toxicity Category 2 classification	Reported in current supplier SDS
Aquatic Chronic Category 2 classification	Reported
Direct undiluted skin application	Not recommended
Internal consumption	Not authorised
IFRA restriction applies	Yes
Finished-product safety assessment required	Yes

Current 2026 supplier SDS documentation classifies Helional as Skin Sensitisation Category 1, Reproductive Toxicity Category 2, and Aquatic Chronic Category 2.

Storage

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 unnecessary exposure to air
 - In a locked professional chemical-storage area
 - Using clean and dry dispensing equipment
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Shelf Life

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

Where a manufacturer shelf-life statement is unavailable, do not assign a definitive expiry date without an approved internal stability procedure.

Certificate Conclusion

Subject to completion using the original IFF batch-specific results, the material represented by this certificate conforms to the representative quality specification for:

Helional® – IFF



Disclaimer

This is a representative supplier-style Certificate of Analysis. It is not the original IFF batch Certificate of Analysis and does not establish that Aromology Trading LLC independently performed the listed tests.

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 code
- Current IFRA documentation
- Current quantitative EU allergen declaration

The current original IFF documentation shall prevail where any difference exists.

Authorised by:

Fozia Khot
Director