



CERTIFICATE OF ANALYSIS (COA)

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Aldehyde Muguet

Product Identification

Parameter	Details
Product Name	Aldehyde Muguet
Manufacturer Product Name	Muguet Aldehyde 50% DEP®
Manufacturer	International Flavors & Fragrances Inc. – IFF
Principal Aroma Material	Muguet Aldehyde
Chemical Name	[(3,7-Dimethyloct-6-en-1-yl)oxy]acetaldehyde
Alternative Name	Citronellyl oxyacetaldehyde
Principal Material CAS Number	7492-67-3
Carrier	Diethyl Phthalate – DEP
Carrier CAS Number	84-66-2
Product Type	Diluted aldehydic fragrance ingredient
Nominal Concentration	50% aroma material in DEP
Grade	Professional perfumery grade

Analytical Specification

Test	Representative Specification	Batch Result	Method
Appearance	Clear, homogeneous liquid	_____	Visual
Colour	Pale yellow to yellow	_____	Visual
Odour	Characteristic powerful aldehydic, rosy, ozonic and muguet-like	_____	Organoleptic
Identification	Conforms to approved reference	_____	GC-MS / IR
Muguet Aldehyde Content	Nominally 50%; manufacturer specification applies	_____	GC-FID
Diethyl Phthalate Content	Nominally 50%; manufacturer specification applies	_____	GC-FID
Relative Density at	0.9650–0.9850	_____	Density meter



20 °C

Refractive Index at 20 °C	Current IFF specification applies	_____	Refractometer
Flash Point	Greater than 94 °C	_____	Closed cup
Acid Value	Current IFF specification applies	_____	Titration
Water Content	Current IFF specification applies	_____	Karl Fischer
Solubility in Alcohol	Soluble	_____	Visual
Solubility in Water	Limited / slightly soluble	_____	Visual
Foreign Matter	Absent	_____	Visual
Chromatographic Profile	Conforms to approved reference	_____	GC-FID / GC-MS

The original IFF batch Certificate of Analysis must be used for the final batch values and acceptance limits.

Representative Composition

Component	CAS Number	Representative Concentration
Muguet Aldehyde	7492-67-3	Approximately 50%
Diethyl Phthalate – DEP	84-66-2	Approximately 50%
Antioxidant or stabiliser, where used	Manufacturer confirmation required	Trace quantity
Minor related constituents	Proprietary	Within manufacturer specification

The precise composition, stabiliser system and concentration tolerances are proprietary to IFF and batch dependent.

Carrier Declaration

This commercial product is intentionally diluted with:

Diethyl Phthalate – DEP

It must not be described as:

- DEP-free
 - Phthalate-free
 - Neat Muguet Aldehyde
 - A single pure chemical
 - A 100% active aroma material
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Organoleptic Profile

Attribute	Description
Olactive Family	Floral, aldehydic and muguet
Odour Character	Powerful, refreshing and diffusive
Floral Facets	Lily of the valley and rosy
Fresh Facets	Ozonic, airy and clean
Secondary Facets	Green, slightly soapy and watery
Note Impact	Primarily top and heart
Perfumery Function	Muguet builder, floral modifier and aldehydic diffuser

Representative Applications

Suitable for professional formulation in:

- Fine fragrance
- Lily-of-the-valley accords
- White-floral compositions
- Rose accords
- Green-floral fragrances
- Soap fragrances
- Shampoo fragrances
- Personal-care fragrances
- Detergent fragrances
- Fabric-care fragrances
- Air-care products

Actual use must comply with the current IFF IFRA Certificate and finished-product safety assessment.

Quality Status

Requirement	Status
Professional perfumery ingredient	Yes
Finished consumer product	No
Suitable for direct undiluted skin application	No
Suitable for internal consumption	No
Contains DEP	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 15–25 °C
- In a cool, dry and well-ventilated area
- Protected from direct sunlight
- Away from heat and ignition sources
- Away from strong oxidising agents
- Away from strong acids and alkalis
- With minimum unnecessary exposure to air
- Using clean and dry dispensing equipment

Shelf Life

Representative recommended shelf life:

24 months

The original IFF shelf-life statement shall prevail.

After prolonged storage, assess:

- Appearance
- Colour
- Odour
- Relative density
- Refractive index
- Acid value
- Chromatographic profile

Certificate Conclusion

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

Aldehyde Muguet (Lily) 50% DEP® – IFF

Disclaimer

Before formal issue, verify and complete 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 Certificate
- Current quantitative EU allergen declaration

Where this document differs from the original IFF documentation, the current IFF documentation shall prevail

Authorised by:

Fozia Khot
Director