



CERTIFICATE OF ANALYSIS (COA)

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Galaxolide™ Undiluted

Product Identification

Parameter	Details
Product Name	Galaxolide™ Undiluted
Alternative IFF Name	Galaxolide Pure
Manufacturer	International Flavors & Fragrances Inc. – IFF
IFF Product Code	00070290
IFF IPC Number	70290
Chemical Name	4,6,6,7,8,8-Hexamethyl-1H,3H,4H,6H,7H,8H-indeno[5,6-c]pyran
Common Abbreviation	HHCB
INCI Name	Hexamethylindanopyran
CAS Number	1222-05-5
EC Number	214-946-9
Molecular Formula	C ₁₈ H ₂₆ O
Molecular Weight	258.4 g/mol
Chemical Family	Polycyclic isochroman musk
Product Form	Undiluted, highly viscous liquid
Grade	Professional perfumery grade

Analytical Specification

Test	Representative Specification	Method
Appearance	Clear, highly viscous liquid	Visual
Colour	Colourless to slight off-white	Visual
Odour	Clean, sweet, floral and woody musk	Organoleptic
Identification	Conforms to approved reference	GC-MS / IR
Refractive Index at 20 °C	1.5310–1.5360	Refractometer
Relative Density	Current IFF specification applies	Density meter



Flash Point	Approximately 144 °C	Closed cup
Water Content	Current IFF specification applies	Karl Fischer
Melting / Softening Behaviour	Highly viscous at ambient temperature	Observation
Solubility in Water	Practically insoluble	Visual
Solubility in Perfumery Media	Soluble or dispersible	Visual
Foreign Matter	Absent	Visual
GC Profile	Conforms to approved IFF reference	GC-FID / GC-MS

The numerical limits are representative. The original batch-specific IFF Certificate of Analysis must be used for formal release.

Representative GC Profile

Galaxolide Undiluted is a technical mixture of stereoisomers and related chromatographic components.

GC Component	Representative IFF Range
Galaxol	0.00–0.50%
Peak 1	2.00–6.00%
Peak 2	2.00–6.00%
Principal Galaxolide Peak	69.00–76.00%
Peak 4	1.50–3.00%
Peak 5	1.50–3.00%
Peak 6	1.50–3.00%
Peak 7	2.00–5.00%
Peak 8	2.00–5.00%
Galaxolide D Peak	0.00–0.20%
Galaxolide L Peak	0.00–0.20%

These ranges are representative manufacturer specifications and are not batch results.

Composition and Additives

Parameter	Status
Hexamethylindanopyran / HHCB	Principal substance
Carrier or Diluent	None in the undiluted grade
Typical Antioxidant	None reported
Added Colour	Not intentionally added
Preservative	Not intentionally added
Technical Isomers	Present
Residual Manufacturing Constituents	Within manufacturer specification



Organoleptic Profile

Attribute	Description
Olfactive Family	Musk
Primary Character	Clean and powerful musk
Secondary Facets	Sweet, floral, woody and powdery
Texture	Smooth and diffusive
Heart-Note Impact	Medium
Base-Note Impact	High
Substantivity	Greater than 48 hours
Perfumery Function	Musk builder, blender, diffuser and fixative

Representative Applications

Galaxolide Undiluted may be used in:

- Fine fragrance
- Musk accords
- Muguet and floral compositions
- Laundry fragrances
- Soap
- Shampoo
- Antiperspirant and deodorant
- Liquid and powder detergent
- Fabric conditioner
- Household fragrances
- Air-care products
- Candles

IFF publishes a typical use level of up to 50%. This is olfactive formulation guidance and not an IFRA or legal maximum.

Handling Before Sampling

Because the undiluted material is highly viscous:

- Warm the sealed container using controlled indirect heating where required.
- Representative IFF guidance uses approximately 60–70°C for up to 24 hours for large containers.
- Mix thoroughly before sampling or dispensing.
- Do not use direct flame or uncontrolled local heating.
- Use appropriate thermal and chemical protective equipment.

Storage Conditions

Store:



- In the original tightly closed container
- At approximately 5–45 °C
- Upright in a cool, dry and ventilated area
- Protected from direct sunlight
- Away from strong oxidising agents
- Away from food and beverages
- With minimum contamination and moisture exposure
- Using clean, dry dispensing equipment

11. Shelf Life

Representative IFF shelf life:

24 months

This applies to unopened material stored under the manufacturer's recommended conditions

12. Quality Conclusion

Subject to insertion of the actual batch-specific IFF analytical results, the material represented by this certificate conforms to the representative specification for:

Galaxolide™ Undiluted – IFF

14. Disclaimer

This Certificate of Analysis is a representative supplier-style template.

Before formal issue, complete and verify the document against:

- Original IFF batch Certificate of Analysis
- Current IFF Product Data Sheet
- Current IFF Safety Data Sheet
- Current IFRA documentation
- Current quantitative EU allergen statement

Current original IFF documentation shall prevail where any difference exists.

Authorised by:

Fozia Khot
Director