



CERTIFICATE OF ANALYSIS (COA)

Product Information

Parameter	Details
Product Name	Gamma Decalactone Natural
CAS Number	706-14-9
EC Number	211-892-8
FEMA Number	2360
Molecular Formula	C ₁₀ H ₁₈ O ₂
Molecular Weight	170.25 g/mol
Batch Number	GDL26063001
Manufacturing Date	20 May 2026
Retest Date	20 May 2028
Issue Date	30 June 2026

Analytical Specifications

Test	Specification	Result
Appearance	Colourless to pale yellow liquid	Complies
Odour	Sweet, creamy, peach, fruity, lactonic	Complies
Identification GC	Conforms to reference standard	Pass
Assay GC	≥ 98.0%	99.1%
Specific Gravity 20°C	0.945 – 0.960	0.952
Refractive Index 20°C	1.450 – 1.460	1.455
Acid Value	≤ 1.0 mg KOH/g	0.21 mg KOH/g
Colour	Clear to pale yellow	Complies
Solubility	Soluble in ethanol and perfume solvents	Complies

Conclusion

The above material complies with the established quality specifications for Gamma Decalactone Natural and is suitable for use as a fragrance ingredient in perfume manufacture.

Storage

Store tightly closed in a cool, dry, well-ventilated area away from heat, direct sunlight, moisture, and oxidizing agents.

Shelf Life



24 months from manufacturing date under recommended storage conditions.

Authorized by

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