



CERTIFICATE OF ANALYSIS (COA)

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NATURAL GAMMA OCTALACTONE

1. PRODUCT IDENTIFICATION

Parameter	Details
Product Name	Natural Gamma Octalactone
Chemical Name	Gamma-Octalactone
Alternative Names	γ -Octalactone; 4-Octanolide; 5-Butyloxolan-2-one
INCI Name	Octalactone
CAS Number	104-50-7
EC Number	203-208-1
FEMA Number	2796
Molecular Formula	$C_8H_{14}O_2$
Molecular Weight	142.20 g/mol
Product Type	Natural Aroma Chemical
Batch Number	NGO-260718

2. ORGANOLEPTIC SPECIFICATION

Test	Specification	Representative Result
Appearance	Clear, colourless to pale yellow liquid	Conforms
Colour	Colourless to pale yellow	Conforms
Odour	Sweet, creamy, fatty, waxy and coconut-like	Conforms
Odour Character	Coconut milk, dairy, peach and lactonic nuances	Conforms
Identity	Conforms to reference standard	Conforms

3. PHYSICO-CHEMICAL SPECIFICATION

Test	Specification	Representative Result
Gamma-Octalactone Content by GC	Minimum 98.0%	99.2%
Relative Density at 20 °C	0.965–0.980	0.972



Refractive Index at 20 °C	1.440–1.447	1.443
Boiling Point	Approximately 232–235 °C	234 °C
Flash Point	Minimum 100 °C	110 °C
Acid Value	Maximum 1.0 mg KOH/g	0.16 mg KOH/g
Water Content	Maximum 0.20%	0.06%
Solubility in Ethanol	Soluble	Conforms
Solubility in Water	Slightly soluble	Conforms

Published natural gamma-octalactone specifications identify the material as CAS 104-50-7, FEMA 2796 and describe its odour as sweet and coconut-like.

4. PURITY AND ADDITIVES

Assessment	Declaration
Natural Gamma-Octalactone	Minimum 98.0%
Added Solvents	None intentionally added
Added Preservatives	None intentionally added
Added Antioxidants	None intentionally added
Artificial Colours	None
Diluent or Carrier	None
Adulteration	None detected by representative analysis

5. STORAGE AND SHELF LIFE

Store in the original, tightly sealed container in a cool, dry and well-ventilated area.

Protect from:

- direct sunlight;
- excessive heat;
- moisture;
- air exposure; and
- strong oxidising agents.

Recommended storage temperature: 15–25 °C

Indicative shelf life: 24 months from the manufacturing date when stored under the recommended conditions.



6. CONCLUSION

The representative results shown above conform to Aromology Trading LLC's commercial specification for Natural Gamma Octalactone.

This certificate contains representative specification values and is not a substitute for batch-specific analytical results where such results are contractually or legally required.

AUTHORISED BY

Fozia Khot

Director

Aromology Trading LLC