



CERTIFICATE OF ANALYSIS (COA)

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Citronellyl Formate

Product Identification

Parameter	Details
Product Name	Citronellyl Formate
Manufacturer	Synarome
Chemical Name	3,7-Dimethyloct-6-enyl formate
CAS Number	105-85-1
EC Number	203-338-9
FEMA Number	2314
Molecular Formula	$C_{11}H_{20}O_2$
Molecular Weight	184.27 g/mol
Chemical Family	Formate Ester
Product Type	Aroma Chemical
Odour Family	Floral / Green / Fruity
Odour Profile	Green rose, floral, fruity, fresh, waxy, citrus-like

Representative Quality Specifications

Test Parameter	Representative Specification
Appearance	Clear liquid
Colour	Colourless to pale yellow
Odour	Characteristic floral, fruity, green, rose-like
Identification	Conforms
Relative Density	Approx. 0.890–0.903
Refractive Index	Approx. 1.443–1.452
Solubility in Water	Insoluble
Solubility in Alcohol	Soluble



Assay	Typically $\geq 90\%$
Acid Value	Manufacturer specification
Peroxide Value	Manufacturer specification
GC Profile	Conforms to reference
Organoleptic Evaluation	Conforms

Typical Composition

Citronellyl Formate is the formic-acid ester of Citronellol.

Commercial fragrance/flavour grades may contain:

- Citronellyl Formate – principal component
- Citronellol – secondary/residual component
- Related terpene alcohols/esters – trace quantities
- Process-related impurities – trace quantities

A recognised specification for CAS 105-85-1 gives:

Citronellyl Formate: minimum 90%

Citronellol: approximately 5–10% secondary component

The exact composition of Synarome Citronellyl Formate must be taken from the current Synarome specification or batch GC analysis.

Organoleptic Assessment

Odour

Characteristic:

- Green
- Rose
- Floral
- Fruity
- Fresh
- Waxy
- Slight citrus nuance

Perfumery Function

Citronellyl Formate is particularly useful in:

- Rose accords



- Geranium accords
- Green florals
- Muguet compositions
- Citrus-floral accords
- Fruity floral fragrances
- Fresh floral bouquets

Certificate Statement

The material represented by this certificate is:

Citronellyl Formate

CAS 105-85-1

and should conform to the applicable manufacturer specification for identity, appearance, odour and physicochemical properties.

For customer/regulatory release, actual:

- Batch Number
- Manufacturing Date
- Retest/Expiry Date
- GC Assay
- Density
- Refractive Index
- Acid Value

should be entered from the relevant Synarome batch COA.

Authorised by:

Fozia Khot
Director