



CERTIFICATE OF ANALYSIS (COA)

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MACROLIDE® SUPRA

PRODUCT IDENTIFICATION

Parameter	Details
Product Name	Macrolide® Supra
Manufacturer	Symrise
Symrise Product No.	660539
INCI Name	Pentadecan-15-olide
CAS Number	106-02-5
EC Number	203-354-6
REACH Registration	01-2119987323-31
FEMA Number	2840
Molecular Formula	C ₁₅ H ₂₈ O ₂
Molecular Weight	240.4 g/mol
Chemical Class	Macrocyclic Lactone
Product Type	Aroma / Fragrance Ingredient
Olfactive Family	Musk

ANALYTICAL SPECIFICATION

Test	Specification	Batch Result	Method
Appearance	Pale white to white solid		Visual
Odour	Musky, balsamic, soft animalic	Conforms	Organoleptic
Identification	Conforms to reference		GC / GC-MS
GC Purity	Minimum 98.5%		GC-FID
Molecular Weight	240.4 g/mol	—	Calculated
Flash Point	>100 °C		Closed Cup



Boiling Point	Approx. 364.5 °C		Technical Data
Log P (Kow)	5.1	—	Technical Data
Stabilizer	None	Conforms	Manufacturer Data
Foreign Matter	Absent		Visual
Chromatographic Profile	Conforms		GC

PHYSICAL AND CHEMICAL PROFILE

Property	Specification
Appearance	Pale white to white solid
Chemical Formula	C ₁₅ H ₂₈ O ₂
Molecular Weight	240.4 g/mol
Purity	≥98.5% GC
Flash Point	>100 °C
Boiling Point	Approx. 364.5 °C
Log P	5.1
Stabilizer	No
Occurrence in Nature	Yes
Chemical Class	Macrocyclic Lactone
Biodegradability	90.0% – Readily biodegradable

ORGANOLEPTIC PROFILE

Attribute	Description
Primary Note	Musk
Secondary Note	Balsamic
Fruity Facet	Red fruit
Animalic Facet	Soft, elegant
Character	Warm, rounded, sophisticated
Substantivity	Very high
Function	Musk body / fixative / diffusion

PERFUMERY APPLICATION

Macrolide® Supra is particularly suitable for:

- Fine fragrance
- Musk accords



- Skin musk
- Floral compositions
- Red-fruit accords
- Powdery fragrances
- Amber fragrances
- Cosmetic fragrances
- Skin-care fragrances
- Soap
- Shampoo
- Conditioner
- Fabric care
- Detergents

Symrise describes the material as imparting elegance and sophistication, supporting red-fruit elements and being particularly valuable in skin-care applications.

RECOMMENDED PERFUMERY USE

Current Symrise technical information gives: 0.5–20%
as the recommended perfumery use range.

This represents Symrise formulation guidance and not an IFRA maximum concentration.

QUALITY DECLARATION

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

MACROLIDE® SUPRA – SYMRISE
PRODUCT NO. 660539
CAS 106-02-5
PURITY: MINIMUM 98.5% GC

STORAGE

Store:

- Cool and dry
- Protected from direct sunlight
- In tightly closed containers
- Away from excessive heat
- Away from strong oxidising agents
- In clean, uncontaminated packaging

The material may require gentle warming before dispensing depending on ambient temperature.



DISCLAIMER

This supplier-style Certificate of Analysis is based on official Symrise product specifications.

It is not the original batch-specific Symrise Certificate of Analysis.

Actual batch analytical values should be entered from the original manufacturer COA or validated laboratory testing before this document is issued as a batch-specific certificate.

Authorised by:

Fozia Khot
Director