

TECHNICAL DATA SHEET

MAGNOLAN

Synthetic floral aroma chemical with magnolia, peony and transparent white-floral facets

1. RAW MATERIAL IDENTIFICATION

Product name	Magnolan
INCI name	Not specifically assigned / not stated in the supplied product data
Chemical name	2,4-Dimethyl-4,4a,5,9b-tetrahydroindeno[1,2-d][1,3]dioxine
CAS number	27606-09-3
Product number	690304
EU REACH number	01-2120234292-65
FEMA number	Not assigned / not available
Molecular formula	C13H16O2
Molecular weight	204.3 g/mol
Chemical class	Acetal
Raw material type	Synthetic aroma chemical
Raw material origin	Synthetic

2. OLFACTORY CLASSIFICATION AND ODOUR PROFILE

Magnolan belongs to the floral, magnolia and white-floral olfactory family and functions primarily as a heart note in perfume compositions.

Its profile is elegant and multifaceted, combining magnolia, peony and lily-of-the-valley nuances with fresh grapefruit, green and subtly rosy facets.



TECHNICAL DATA SHEET

3. DESCRIPTION AND FUNCTION IN A PERFUME COMPOSITION

Magnolol is a modern synthetic floral aroma chemical with an elegant magnolia character. Its odour profile combines transparent white flowers with peony, lily-of-the-valley and fresh grapefruit nuances, producing a clean and sophisticated floral effect.

In perfume compositions, it is used as a key material for contemporary floral creations. It imparts naturalness to white-floral accords and provides a smooth link between fresh citrus top notes and transparent floral heart notes.

Magnolol contributes radiance, freshness and refined floral volume without excessive sweetness or heaviness. It is particularly suitable for magnolia accords, white-floral fragrances, clean florals and modern niche compositions.

It blends well with Hedione-type materials, jasmine, rose, lily-of-the-valley materials, citrus notes, musks, sandalwood and dry woody ingredients.

Functional role in perfumery: Magnolol acts as a floral heart note, white-floral modifier and structural bridge between citrus, floral and dry woody elements. It increases transparency, naturalness and radiance in magnolia and white-floral accords.

4. APPLICATION AND OLFACTORY COMPATIBILITY

Recommended use in perfumery: For magnolia, peony, lily-of-the-valley and white-floral accords, clean floral fragrances, citrus-floral compositions and modern niche perfumes.

It is used to create and modify:

- magnolia and peony accords;
- lily-of-the-valley compositions;
- white-floral fragrances;
- clean and transparent floral structures;
- citrus-floral accords;
- modern niche and premium perfumes;
- floral-musky and powdery bases;
- fragrances for cosmetic and personal-care products.

Magnolol can be incorporated directly into the perfume concentrate. Pre-dilution may facilitate laboratory evaluation and precise dosing.

TECHNICAL DATA SHEET

5. RECOMMENDED USE

Manufacturer's recommended range	0.5-20.0% in perfume compositions
Magnolia accords	0.5-5.0%
White-floral fragrances	0.1-3.0%
Clean floral compositions	0.1-2.0%
Modern niche fragrances	0.2-3.0%

Pre-dilution in ethanol, dipropylene glycol (DPG) or triethyl citrate (TEC) is recommended for easier dosing and more precise formula balancing. The typical application ranges are formulation guidance; the current IFRA certificate and the requirements of the relevant finished-product category must be checked before use.

6. PHYSICOCHEMICAL AND TECHNICAL DATA

Appearance	Clear liquid
Colour	Colourless to pale yellow
Odour	Floral, magnolia, peony, lily of the valley and grapefruit
Olfactory character	Fresh, elegant and transparent white floral with citrus-green nuances
GC purity	Minimum 98% (sum of isomers)
Flash point	>100 °C
Boiling point	287.2 °C
Log P (kow)	2.67
Stabilizer	None
Occurrence in nature	No
Solubility	Compatible with alcohol and standard perfume bases; verify in the intended system



TECHNICAL DATA SHEET

7. STABILITY AND COMPATIBILITY

Magnolol shows good performance in a wide range of perfume, personal-care and home-care applications. It is compatible with floral, citrus, musky, powdery and dry woody fragrance bases. Compatibility, stability, colour and odour profile should be confirmed in the intended finished formulation and packaging, particularly under the relevant pH and temperature conditions.

8. REGULATORY INFORMATION AND STATUS

Vegan status: Vegan; no ingredients of animal origin are expected from the stated synthetic origin. Confirmation should be based on the supplier's current declaration.

GMO status: Synthetic material; confirm the current GMO statement with the supplier.

IFRA status: Use must comply with the current IFRA certificate for the relevant finished-product category.

Halal/Kosher status: Not specified in the supplied data.

Nanomaterials: Not specified in the supplied data; the material is not presented as a nanomaterial.

9. STORAGE AND SHELF LIFE

Store in the original, tightly closed container, protected from light, air and sources of heat. Close the container immediately after use.

Recommended storage temperature: Maximum 25 °C.

Shelf life: 24 months under the recommended storage conditions.

10. SAFETY INFORMATION

Magnolol is intended for professional use as an ingredient in perfume and cosmetic compositions. It should not be applied directly to the skin in concentrated form.

Use suitable protective gloves and eye protection. Avoid direct contact with the skin and eyes and avoid inhalation of vapour or aerosol. Work in a well-ventilated area and follow the current safety data sheet for the specific supplied material.

11. DISCLAIMER

The information applies exclusively to the material described and does not replace the specification, certificate of analysis, IFRA documentation or safety data sheet issued for the specific supplier product. The user is responsible for confirming suitability, stability, safety and regulatory compliance in the intended application and target market. This document does not constitute regulatory approval or a guarantee of the properties of the finished product.