

IFRA CONFORMITY STATEMENT

EUGENOL

Based on IFRA Standards – 51st Amendment

Product Name	Eugenol
INCI Name	Eugenol
Chemical Name	4-Allyl-2-methoxyphenol
CAS No.	97-53-0
EC No.	202-589-1
Molecular Formula	C ₁₀ H ₁₂ O ₂
Molecular Weight	164.20 g/mol
Product Type	Aroma Chemical / Fragrance Ingredient
Odor	Strong, sweet, spicy, clove-like

Eugenol is subject to an **IFRA Restriction Standard**. Under the 51st Amendment, IFRA identifies **dermal sensitization and systemic toxicity** as the properties driving its risk-management limits.

IFRA Maximum Acceptable Concentrations

The percentages below are the maximum acceptable concentrations of **Eugenol** in the finished consumer product.

IFRA Category Maximum Eugenol

Category 1	0.45%
Category 2	0.14%
Category 3	1.00%
Category 4	2.50%
Category 5A	0.64%
Category 5B	0.64%

IFRA Category Maximum Eugenol

Category 5C 0.64%

Category 5D 0.21%

Category 6 1.50%

Category 7A 2.00%

Category 7B 2.00%

Category 8 0.21%

Category 9 4.90%

Category 10A 4.00%

Category 10B 18.00%

Category 11A 0.21%

Category 11B 0.21%

Category 12 No Restriction

Fine Fragrance – Category 4

For fine fragrances, perfumes, Eau de Parfum, Eau de Toilette and related applications, the Category 4 maximum is:

2.50% Eugenol in the finished consumer product.

This is an IFRA maximum, **not a recommended formulation dosage.**

Statement of Conformity

Eugenol (CAS No. 97-53-0) may be used as a fragrance ingredient provided that the total concentration of Eugenol in the finished consumer product does not exceed the applicable IFRA maximum acceptable concentration listed above.

Eugenol can also be contributed by natural fragrance materials and essential oils. IFRA therefore directs formulators to consider contributions from other sources when calculating total Eugenol exposure.

Important Flavor Requirement

For **Categories 1 and 6**, where small amounts of fragrance material may potentially be ingested, IFRA additionally requires the material to meet the applicable flavor-safety requirements described in its guidance.

Regulatory & Safety Statement

Compliance with an IFRA Standard does not replace a complete safety assessment of the finished product. The manufacturer remains responsible for determining the correct IFRA category, calculating Eugenol from all contributing sources, and complying with applicable cosmetic and fragrance-allergen labeling requirements.



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Botanic Planet Canada Inc. 2 Bram Court, Unit # 3-4 Brampton, Ontario, L6W 3R6 Canada

Email: info@botanicplanet.ca www.botanicplanet.ca