



A R O M O L O G Y

IFRA COMPLIANCE STATEMENT

IFRA Standards – 51st Amendment

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PRODUCT INFORMATION

Parameter	Details
Product Name	Pimento Leaf Essential Oil
Botanical Name	<i>Pimenta dioica</i> (L.) Merr.
Botanical Synonym	<i>Pimenta officinalis</i> Lindl.
INCI Name	Pimenta Dioica Leaf Oil
Primary CAS Number	8006-77-7
Alternative CAS Number	84929-57-7
EC Number	284-540-4
Product Type	Natural Complex Substance
Extraction Method	Steam Distillation
Country of Origin	Jamaica
IFRA Reference	51st Amendment

IFRA STATUS

Pimento Leaf Essential Oil is a **Natural Complex Substance** whose IFRA conformity is principally affected by the presence of naturally occurring restricted constituents, particularly:

IFRA-Relevant Constituent	CAS Number	Representative Content
Eugenol	97-53-0	65–85%
Methyl Eugenol	93-15-2	Trace–5%
β-Caryophyllene	87-44-5	1–5%

A commercial Pimento Leaf Oil certificate identifies eugenol and methyl eugenol as constituents subject to IFRA Standards.

The IFRA 51st Amendment is the applicable framework requested for this certificate. IFRA states that its Standards are designed to support the safe use of fragrance ingredients in consumer products.



AROMOLOGY CONFORMITY DECLARATION

Based on the representative composition of this natural oil:

1. Pimento Leaf Essential Oil is not suitable for use at one universal concentration across all IFRA categories.
2. The permissible use level varies according to:
 1. The IFRA product category
 2. The batch-specific eugenol content
 3. The batch-specific methyl eugenol content
 4. The total contribution of these constituents from all materials in the fragrance
 5. The intended consumer-product application
3. Eugenol and methyl eugenol must be included in the quantitative IFRA compliance calculation for the finished fragrance.
4. A batch-specific calculation is required before issuing a finished-fragrance IFRA Certificate of Conformity.

REPRESENTATIVE RESTRICTED-CONSTITUENT BASIS

For calculation purposes, the following representative composition may be used only where no batch-specific analytical data are available:

Constituent	Representative Calculation Value
Eugenol	76.4%
Methyl Eugenol	1.2%

Calculation Method

The maximum concentration of Pimento Leaf Essential Oil in a finished fragrance category must be calculated using:

Maximum permitted constituent level ÷ constituent concentration in the oil

The lowest calculated result from all applicable restricted constituents becomes the maximum permitted use level for the oil in that category.

IFRA CATEGORY STATEMENT

IFRA Categories	Status
Categories 1–12	Restricted according to the contribution of eugenol, methyl eugenol and any other IFRA-regulated constituents
Universal Maximum Level	Not assigned
Batch-Specific Calculation	Required
Finished-Fragrance	Required



AROMOLGY Assessment

No fixed category percentages are stated in this representative certificate because the limits depend materially on the batch-specific eugenol and methyl eugenol concentrations and the current constituent standards.

IMPORTANT REQUIREMENTS

The finished-product manufacturer must:

- Determine the applicable IFRA category
- Use the current IFRA 51 Standards
- Obtain batch-specific GC/MS data
- Include all sources of eugenol and methyl eugenol in the formula
- Calculate the total concentration in the finished consumer product
- Complete an independent safety assessment
- Reassess compliance following any formulation or regulatory change

LIMITATION OF CERTIFICATE

This document relates only to the raw material identified above.

It does not constitute:

- An IFRA certificate for a finished fragrance compound
- A comprehensive toxicological assessment
- Approval for unrestricted use
- A cosmetic-product safety assessment
- Confirmation of compliance without batch-specific calculation

The original manufacturer's current IFRA certificate, GC/MS report and constituent declaration shall take precedence where available.

AUTHORISED BY

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