



A R O M O L O G Y

IFRA COMPLIANCE STATEMENT

IFRA Standards – 51st Amendment

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Schiff Canthoxal

Product Identification

Item	Details
Product Name	Schiff Canthoxal
Manufacturer	Synarome
Product Reference	85709
Chemical Description	Canthoxal / Methyl Anthranilate Schiff Base
Alternative Description	Anisyl Propanal / Methyl Anthranilate Schiff Base
CAS Number	111753-62-9
Product Type	Synthetic Aroma Chemical
Chemical Family	Schiff Base
Parent Aldehyde	Canthoxal / p-Anisyl Propanal
Parent Aldehyde CAS	5462-06-6
Odour Profile	Spicy, cumin, caraway, cinnamon, woody, fur, floral, anisic

Synarome describes Schiff Canthoxal as a powerful naturalistic spicy note combining cumin, caraway, cinnamon, woody and fur nuances, adding richness and character to fragrance compositions.

IFRA 51 Regulatory Status

Schiff Canthoxal must not be treated as an unrestricted aroma chemical.

IFRA requires Schiff bases made from restricted aldehydes to be included under “Contributions from Other Sources.”

For:

Canthoxal / Methyl Anthranilate Schiff Base
CAS 111753-62-9



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the IFRA contribution factor is:
57.3%

Therefore:

Canthoxal equivalent = Schiff Canthoxal concentration × 57.3%

This reflects the theoretical contribution of the restricted parent aldehyde on dissociation.

IFRA Calculation Table

Schiff Canthoxal Concentration	Canthoxal Equivalent
0.10%	0.0573%
0.25%	0.1433%
0.50%	0.2865%
1.00%	0.5730%
2.00%	1.1460%
5.00%	2.8650%
8.00%	4.5840%
10.00%	5.7300%

Published fragrance-industry information recommends Schiff Canthoxal at up to approximately 8% in a fragrance concentrate, but that is an olfactory recommendation, not an IFRA maximum.

Parent Aldehyde

The relevant parent aldehyde is:

Canthoxal / 4-Methoxy- α -methylbenzenepropanal
CAS 5462-06-6

Canthoxal is the aldehyde whose IFRA restriction controls the safety assessment of Schiff Canthoxal.

The Schiff base itself is therefore evaluated by converting its concentration to the corresponding Canthoxal equivalent.

Contributions from Other Sources

The total IFRA calculation must include Canthoxal contributed from:

- Schiff Canthoxal
- Free Canthoxal
- Other Canthoxal Schiff bases
- Floral or spicy fragrance bases containing Canthoxal
- Proprietary accords containing CAS 5462-06-6
- Any other raw material contributing the same restricted aldehyde



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All sources must be added cumulatively.

Finished-Product Calculation

Where:

- Schiff Canthoxal = A% of fragrance concentrate
- Fragrance concentrate = B% of finished consumer product

then:

Canthoxal equivalent in finished product = $A \times B \times 0.573$

Percentages should be converted appropriately during calculation.

Example – Fine Fragrance

Assume:

- Schiff Canthoxal = 2.0% of fragrance concentrate
- Fragrance concentrate = 20% of finished perfume

Schiff Canthoxal in finished perfume:

$$2.0\% \times 20\% = 0.40\%$$

Canthoxal equivalent:

$$0.40\% \times 57.3\% = 0.2292\%$$

Therefore, the finished perfume contributes:

0.2292% Canthoxal equivalent

Any Canthoxal contributed by other fragrance materials must then be added before checking the applicable IFRA Category 4 limit.

IFRA Category Compliance

A universal independent category table should not be assigned directly to Schiff Canthoxal without:

1. Applying the current IFRA restriction for the parent Canthoxal.
2. Using the 57.3% conversion factor.
3. Including all other sources of Canthoxal.
4. Applying the intended finished-product category.
5. Considering any other restricted constituent in the commercial Synarome grade.

The current original Synarome IFRA 51 Certificate should take precedence where available.



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Important Distinction

Schiff Canthoxal

CAS 111753-62-9

is not the same substance as:

Canthoxal

CAS 5462-06-6

The latter is the parent aldehyde.

The CAS number 5462-06-6 should not be used as the product CAS number for Schiff Canthoxal.

Declaration

Based on available IFRA regulatory information:

- Product: Schiff Canthoxal
- Manufacturer: Synarome
- Product Reference: 85709
- CAS Number: 111753-62-9
- Parent aldehyde: Canthoxal / p-Anisyl Propanal
- Parent aldehyde CAS: 5462-06-6
- IFRA Schiff-base conversion factor: 57.3%
- Schiff Canthoxal must therefore be assessed through its Canthoxal-equivalent contribution.
- All sources of Canthoxal must be calculated cumulatively.
- Final compliance depends on the complete fragrance formulation and applicable IFRA category.

This document is a representative supplier regulatory declaration and does not replace the current original Synarome IFRA Certificate.

Authorised by:

Fozia Khot

Director