

TECHNICAL DATA SHEET

INDOL

Synthetic floral-animalic aroma chemical for white-floral accords

1. RAW MATERIAL IDENTIFICATION

Product name	Indol
Synonym	Herboxane
INCI name	INDOLE
IUPAC name	1H-Indole
CAS number	120-72-9
Molecular formula	C ₈ H ₇ N
Molecular weight	117.15 g/mol
Chemical group	Heterocyclic aromatic compound / nitrogen-containing aroma chemical
Raw material origin	Synthetic
Country of origin	India
Raw material category	Aroma chemical

2. OLFACTORY CLASSIFICATION AND ODOUR PROFILE

Indol belongs to the floral, jasmine and animalic olfactory families and functions as a middle-to-base note in fragrance compositions.

Its odour profile is highly concentration-dependent. At very low concentrations, it gives an intense white-floral character associated with jasmine, tuberose and orange blossom. At higher concentrations, pronounced animalic, faecal and intensely indolic facets emerge.



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3. DESCRIPTION AND FUNCTION IN FRAGRANCE COMPOSITIONS

Indol is one of the most characteristic floral-animalic aroma chemicals. In trace amounts, it gives white-floral accords warmth, richness and a more natural character, while increasing concentrations rapidly reveal its powerful animalic and faecal aspects.

It is an important component in the reconstruction of natural jasmine. When carefully dosed, it adds depth, fullness and realism to jasmine accords and performs a similar function in tuberose, neroli and orange-blossom compositions.

In white-floral structures, Indol generally acts as a potent modifier rather than as an independent note. It can make an overly clean or linear floral accord warmer, more sensual and more lifelike.

At elevated levels, the floral facet recedes and the material becomes distinctly animalic, bodily and faecal. This effect can be useful in specialised animalic, chypre and experimental compositions, but requires exceptionally precise dosing.

Functional role in perfumery: Powerful floral-animalic modifier, naturalising component for white-floral accords and depth-enhancing middle-to-base note.

4. APPLICATION AND OLFACTORY COMPATIBILITY

Recommended use in perfumery: As a highly potent modifier in jasmine, tuberose, neroli, orange-blossom, white-floral, chypre and amber-oriental compositions.

It is used to create and modify:

- jasmine and naturalistic jasmine accords;
- tuberose, neroli and orange-blossom compositions;
- white-floral bouquets;
- rose and ylang-ylang structures requiring additional depth;
- animalic and sensual floral effects;
- chypre and mossy compositions;
- amber-oriental and experimental fragrances.

It combines particularly well with jasmine materials, benzyl acetate, methyl anthranilate, ylang-ylang, tuberose, neroli, orange blossom, rose, musks, amber materials, labdanum, patchouli and mossy notes.



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5. RECOMMENDED USE

Recommended range	0.01-0.3% in the fragrance composition
Function	Floral-animalic modifier and naturalising component for white-floral accords
IFRA status	Check the current IFRA certificate for the relevant finished-product category

Very precise dosing is required. At trace levels, Indol contributes a natural floral character; even a small increase can rapidly produce a pronounced animalic and faecal effect. The stated range is a formulation recommendation and does not represent a regulatory maximum concentration.

6. PHYSICOCHEMICAL AND TECHNICAL DATA

Appearance	Crystals
Colour	White to pearly white
Odour	Animalic and floral
Olfactory character	Highly concentrated and dose-dependent; natural, warm and sensual white-floral character in traces, becoming strongly animalic and faecal at higher levels
Density	Not stated in the supplied TDS
Refractive index	Not applicable to the solid raw material and not stated in the supplied TDS
Flash point	136 °C
Purity	99%
Solubility	Not stated in the supplied TDS



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7. STABILITY AND COMPATIBILITY

Protect from air, moisture and light and keep in a well-filled, hermetically sealed container. Indol is particularly compatible with jasmine, tuberose, neroli, orange blossom, rose, ylang-ylang, musks, animalic materials, amber accords and selected chypre structures. Compatibility, stability, colour and odour profile must be confirmed in the intended formulation and packaging.

8. REGULATORY INFORMATION AND STATUS

Vegan status: Vegan; contains no ingredients of animal origin.

GMO status: Does not contain GMOs and is not derived from genetically modified organisms.

IFRA status: The current IFRA certificate must be checked for the specific finished-product category.

Nanomaterials: Not stated in the supplied data.

Safety status: Identified as a hazardous chemical in the supplied TDS; apply the handling measures specified in the current Safety Data Sheet.

9. STORAGE AND SHELF LIFE

Store in a dry place, in the original, well-filled and hermetically sealed container, protected from air, moisture and light. Close the container immediately after use.

Recommended storage temperature: Not specified in the supplied TDS.

Shelf life: 24 months under the recommended storage conditions.

10. SAFETY INFORMATION

Indol is intended for professional use as an ingredient in fragrance compositions. It should not be applied directly to the skin in concentrated form.

Use suitable protective gloves and eye protection, avoid inhalation of dust and direct contact with the skin and eyes, and work in a well-ventilated area. Follow the current Safety Data Sheet for the specific product.

11. DISCLAIMER

The information applies exclusively to the described raw material and does not replace the specification, Certificate of Analysis, IFRA documentation or Safety Data Sheet of the specific manufacturer. The user is responsible for verifying 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.