Avena Chem
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TECHNICAL DATA SHEET

C12 MNA ALDEHYDE

2-Methylundecanal · synthetic aldehydic aroma chemical

1. PRODUCT IDENTIFICATION

Product name	C12 MNA Aldehyde
Chemical name	2-Methylundecanal
INCI name	Methylundecanal
CAS number	110-41-8
Molecular formula	$C_{12}H_{24}O$
Molecular weight	184.32 g/mol
Raw material type	Synthetic aliphatic aldehyde
Olfactory family	Aldehydic
Position in perfume	Top note
Geographical origin	Germany / India

2. OLFACTORY CLASSIFICATION AND ODOUR PROFILE

C12 MNA Aldehyde is a synthetic aroma chemical from the aliphatic aldehyde family, chemically defined as 2-methylundecanal. Its olfactory profile is aldehydic, fatty and mildly floral. Lemon-like fatty aldehydic nuances dominate, accompanied by a clean floral note that softens the overall character. The technical documentation also indicates fresh, ambery and mildly orange nuances.

3. FUNCTION IN A FRAGRANCE COMPOSITION

It functions primarily as a top note. It strengthens the aldehydic character of the opening, increases brightness and introduces clean, diffusive freshness. Its pronounced fatty body contributes to a rounder and softer impression, particularly in floral structures.

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4. APPLICATION AND COMPATIBILITY

The material is used particularly in floral-aldehydic compositions, where it provides a classical aldehydic effect with mild floral softening. It is also suitable for contemporary chypre formulas, in which aldehydic freshness complements deeper woody, mossy or ambery nuances.

It blends well with other aldehydes, citrus notes such as bergamot, lemon and orange, and floral materials including rose, jasmine, neroli and lily of the valley. In contemporary formulas, it can increase diffusion and accentuate the cleanliness of the opening accord.

5. RECOMMENDED USE

It is used primarily to build aldehydic top notes and to emphasise cleanliness, freshness and diffusion in floral-aldehydic and contemporary chypre compositions.

Owing to its strong olfactory effect, it should be used in small, precisely controlled quantities. The technical data provided do not specify an exact recommended dosage range. Higher concentrations may become dominant and disturb the balance of finer floral or citrus components.

6. PHYSICOCHEMICAL DATA

Appearance	Liquid
Colour	Colourless to pale yellow
Odour	Aldehydic; ambery, fresh, with an orange nuance
Density at 20 °C	0.816-0.836
Refractive index at 20 °C	1.422-1.442
Flash point	68.5 °C
Purity	95.0-100.0%
Antioxidant	Tocopherol
Solubility	Not specified in the technical data provided

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7. STABILITY

The product is stable when stored correctly in its original, tightly closed and hermetically sealed container, protected from air and light. Stability, compatibility, colour and odour should be evaluated in the intended finished formulation and packaging.

8. REGULATORY AND STATUS INFORMATION

IFRA status: No specific IFRA restrictions are stated in the technical data provided. Use must comply with the current IFRA certificate for the relevant finished-product category.

Vegan status: Vegan; does not contain ingredients of animal origin. GMO status: Does not contain GMOs and is not derived from GMO raw materials.

Halal status: Compliant with Halal requirements. Kosher status: Compliant with Kosher requirements. Nanomaterials: Does not contain nanomaterials.

Additional status: Does not contain palm oil or palm-oil derivatives and has not been tested on animals.

9. STORAGE AND SHELF LIFE

Store in the original, tightly closed and hermetically sealed container, protected from air and light, at a temperature not exceeding 25 °C. Shelf life is 24 months under the specified storage conditions.

10. SAFETY INFORMATION

The product is intended for industrial use in perfumes, cosmetics and flavours. Avoid direct contact with the undiluted product. Refer to the current Safety Data Sheet (SDS) for hazard classification, safe handling, first-aid measures and disposal instructions.

11. DISCLAIMER

The information in this technical data sheet relates to the material described and is based on the technical data provided. The user is responsible for verifying suitability, stability, safety and regulatory compliance in the intended formulation and application. This document does not guarantee the properties of the finished product.