

TECHNICAL DATA SHEET

PHENYLETHYL ALCOHOL

Aromatic alcohol with a soft, fresh and natural rose odour

1. RAW MATERIAL IDENTIFICATION

Product name	Phenylethyl Alcohol
Chemical name	2-Phenylethanol
Synonyms	Phenyl Ethyl Alcohol; β -Phenylethyl Alcohol; 2-Phenylethanol
INCI name	PHENETHYL ALCOHOL
CAS / EC number	60-12-8 / 200-456-2
REACH number	01-2119963921-31-XXXX
FEMA / JECFA / FLAVIS number	2858 / 987 / 02.019
Molecular formula / weight	$C_8H_{10}O$ / 122.16 g/mol
Chemical group	Aromatic alcohol
Origin / country of origin	Synthetic / China
Raw material category	Aroma chemical

2. OLFACTORY CLASSIFICATION AND ODOUR PROFILE

Phenylethyl Alcohol belongs to the Floral - Rose / Geranium olfactory family. In a fragrance composition, it functions as a middle note, providing softness, body and the natural character of flower petals.

Its odour is soft, fresh and floral, with a recognisable rose character, geranium nuances and subtle honeyed sweetness. It is intended for fragrance compositions, fragrance bases and cosmetic products.



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3. DESCRIPTION AND FUNCTION IN FRAGRANCE COMPOSITION

Phenylethyl Alcohol is one of the most important floral aroma chemicals in modern perfumery. It has a soft, fresh and natural rose-petal odour, accompanied by geranium nuances and subtle honeyed sweetness.

It is a fundamental building block of rose accords. It gives floral compositions body, naturalness and continuity without pronounced sharpness. At lower levels, it rounds out other floral notes and softens more aggressive aldehydic, green and spicy materials.

Functional role in perfumery: It is used as a principal building block of rose accords, a floral modifier and a linking component between top and base notes. It provides body, softness, a natural petal character and moderate tenacity.

4. APPLICATION AND OLFACTORY COMPATIBILITY

Recommended use in fragrances: For building floral middle notes, particularly rose and geranium accords, and for softening and linking complex floral compositions.

It is used to create and modify:

- rose and geranium accords;
- floral bouquets and fresh-petal compositions;
- lily-of-the-valley, jasmine, lilac and peony accords;
- floral-powdery and floral-fruity compositions;
- aldehydic-floral fragrances;
- chypre and fougère compositions;
- floriantal and floral-amber fragrances;
- honeyed and mildly balsamic floral accords;
- fragrances for soaps, cosmetic products and household hygiene products.

It combines well with rose oil and rose absolute, geraniol, citronellol, nerol, rhodinol, linalool, hydroxycitronellal, ionones, phenylacetaldehyde, benzyl acetate, benzyl salicylate, jasmine materials, aldehydes and musk aroma chemicals.

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5. RECOMMENDED USE

Method of use	May be added directly to the fragrance concentrate; for laboratory evaluation, a 10% solution may be prepared in ethanol, dipropylene glycol or another suitable perfumery solvent
Recommended use level	1.00-15.00% in the fragrance concentrate
Dosing note	In pronounced rose accords and complex floral bases, it may also be used at higher levels according to the desired olfactory effect
IFRA status	According to the supplier's documentation for the 51st IFRA Amendment, use up to 100% is permitted in Category 4; for other categories, apply the values in the current IFRA certificate

The stated range is a formulation recommendation and not a regulatory maximum. Confirm the final concentration against the current IFRA certificate, the safety assessment and the intended use of the finished product.

6. PHYSICOCHEMICAL AND TECHNICAL DATA

Appearance / colour	Clear liquid / colourless
Odour	Soft, fresh and floral rose odour with geranium nuances and a mildly honeyed petal character
Purity	99.0-100.0%
Relative density at 20/4 °C	1.010-1.030
Refractive index at 20 °C	1.523-1.543
Melting point / boiling point	Approximately -27 °C / approximately 218.2 °C
Flash point	102 °C, closed-cup method
Solubility	Slightly soluble in water; soluble in ethanol and conventional perfumery solvents
Shelf life	24 months



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7. STABILITY AND COMPATIBILITY

Stable under proper handling and storage conditions. Avoid contact with strong oxidising agents. Stability, compatibility, colour and odour profile must be confirmed in the finished formulation and intended packaging.

8. REGULATORY DATA AND STATUS

Vegan status: Vegan; contains no ingredients of animal origin. GMO status: Does not contain and is not derived from GMOs.

Nanomaterials: Does not contain nanomaterials according to the relevant regulatory definitions.

According to the supplier's cosmetic declaration, the product contains the following declarable fragrance allergens in trace amounts: Benzyl Alcohol 0.0300%, Benzaldehyde 0.0300% and Amyl Salicylate 0.0020%. Their concentration in the finished cosmetic product must be calculated and declared when the applicable regulatory thresholds are exceeded.

9. STORAGE AND SHELF LIFE

Store at a temperature not exceeding 25 °C in the original, well-filled and hermetically sealed container, protected from air, light and sources of heat. Close the container immediately after use.

Shelf life: 24 months when stored in the original packaging under the recommended conditions.

10. SAFETY INFORMATION

Phenylethyl Alcohol is intended for professional use as an ingredient in fragrance and cosmetic compositions. It must not be applied directly to the skin in concentrated form.

According to the supplier's safety data sheet: H302 - Harmful if swallowed; H319 - Causes serious eye irritation.

Wear suitable protective gloves and eye protection. Avoid ingestion, direct eye contact and prolonged skin contact. Work in a well-ventilated area and prevent the material from entering drains and waterways.

11. DISCLAIMER

The information applies exclusively to the raw material described and does not replace the specification, COA, IFRA documentation or SDS issued by the specific manufacturer. The user is responsible for verifying suitability, stability, safety and regulatory compliance for the intended application and target market. This document does not constitute regulatory approval or a guarantee of finished-product properties.