

TECHNICAL DATA SHEET

LIMBEROL

Synthetic woody-amber aroma chemical with a clean and highly persistent character

1. RAW MATERIAL IDENTIFICATION

Product name	Limberol
INCI name	TRIMETHYLPROPYLCYCLOHEXANEPROPANOL
Synonyms	Nimberol; Norlimbanol
CAS number	70788-30-6
Molecular formula	C ₁₅ H ₃₀ O
Molecular weight	226.4 g/mol
Chemical group	Synthetic woody-amber material / alicyclic alcohol
Raw material origin	Synthetic
Raw material category	Aroma chemical

2. OLFACTORY CLASSIFICATION AND ODOUR PROFILE

Limberol belongs to the woody-amber / ambergris-woody olfactory family and functions primarily as a base note in fragrance compositions.

Its profile is powerful, clean and highly persistent, with dry woody, amber and musky nuances and a refined modern effect.



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3. DESCRIPTION AND FUNCTION IN FRAGRANCE COMPOSITIONS

Limberol is a modern synthetic aroma chemical from the woody-amber and ambergris-woody olfactory family. It is characterised by a powerful, clean and long-lasting woody profile with elegant amber and musky nuances.

It provides pronounced diffusion and excellent substantivity, making it highly valued in modern perfumery for building deep and persistent woody bases. Its character evokes a dry ambergris-woody accord with a clean, contemporary effect and strong projection.

It is particularly suitable for niche fragrances, amber compositions, modern men's fragrances, smoky woody bases and luxurious oriental structures. Its intensity and persistence make it useful both as a structural base material and as an enhancer of woody volume.

It combines well with Iso E Super-type materials, amber notes, vetiver, cedarwood notes, musks, smoky accords and modern woody bases.

Functional role in perfumery: Highly persistent woody-amber base note, diffusion enhancer and structural material for clean, dry and modern woody compositions.

4. APPLICATION AND OLFACTORY COMPATIBILITY

Recommended use in perfumery: For building powerful woody and amber bases, enhancing persistence and diffusion, and creating modern ambergris-woody, smoky and masculine fragrance structures.

It is used to create and modify:

- woody bases;
- amber and ambergris-woody compositions;
- niche fragrances;
- smoky and woody accords;
- modern men's fragrances;
- luxurious oriental compositions;
- musky-woody bases;
- fragrances for cosmetic and personal-care products.

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5. RECOMMENDED USE

Recommended range	0.5-5.0% in fragrance compositions
Woody bases	0.5-5.0%
Amber compositions	0.5-3.0%
Niche fragrances	0.5-5.0%
Smoky and woody accords	0.5-3.0%

Pre-dilution in ethanol, dipropylene glycol (DPG) or triethyl citrate (TEC) is recommended for easier dosing and more precise balancing of the formula. The stated ranges are formulation recommendations and do not represent regulatory maximum concentrations. The current IFRA certificate must be checked for the relevant finished-product category.

6. PHYSICOCHEMICAL AND TECHNICAL DATA

Appearance	Liquid
Colour	Colourless to pale yellow
Odour	Woody, amber, clean and elegant
Olfactory character	Powerful and persistent, with dry woody, amber and musky nuances
Density at 20 °C	0.930-0.960
Refractive index at 20 °C	1.480-1.500
Flash point	122 °C
Purity	≥95%
Solubility	Soluble in alcohol and fragrance bases



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7. STABILITY AND COMPATIBILITY

The material shows very good stability in fragrance formulations and is highly compatible with woody, amber, musky and smoky fragrance bases. Compatibility, stability, colour and odour profile should be confirmed in the intended finished 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 GMO raw materials.

IFRA status: Not stated in the supplied data. The current IFRA certificate must be checked before use in the finished product.

Nanomaterials: Not stated in the supplied data.

9. STORAGE AND SHELF LIFE

Store in the original, tightly closed container, protected from light, air and sources of heat. Close the container immediately after use.

Recommended storage temperature: Maximum 25 °C.

Shelf life: 24 months under the recommended storage conditions.

10. SAFETY INFORMATION

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

Use suitable protective gloves and eye protection. Avoid direct contact with the skin and eyes and avoid inhalation of vapour or aerosol. Work in a well-ventilated area and 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.