Import and distribution for Serbia: Farmadria DOO
info@avenachem.com
+381 (0) 69 / 55 65 029
www.avenachem.com

TECHNICAL DATA SHEET

AMBROXIDE CRYSTALS

Ambermor IFF - crystalline woody amber aroma chemical with an ambergris character

1. PRODUCT IDENTIFICATION

Product name	Ambroxide Crystals (Ambermor IFF)
INCI name	Dodecahydro-Tetramethylnaphthofuran
CAS / EC (EINECS)	6790-58-5 / 229-861-2
Chemical name	Dodecahydro-3a,6,6,9a-tetramethylnaphtho[2,1-b]furan
Synonyms	Ambroxide, (−)-Ambroxide, Ambrox, Ambroxan
Molecular formula and weight	$C_{16}H_{28}O$ / 236.40 g/mol
Raw material type	Aroma chemical / polycyclic terpene ether, norlabdane derivative
Active substance / carrier	Ambroxide / no added solvent or carrier
Raw material origin	IFF describes Ambermor as derived from renewable sources. Sclareol is a known precursor of ambroxide.
FEMA / tariff code	3471 / 2932990090 (per supplier specification)

2. OLFACTORY CLASSIFICATION AND ODOUR PROFILE

Olfactory family: Ambery, Woody, Animalic (ambergris).

Ambroxide has an intense, dry and warm woody amber odour with mineral and subtly saline nuances. Slightly sweet, musky and animalic facets develop over time, leaving a persistent ambergris character in the drydown.

It has low volatility, good diffusion and a pronounced scent trail. IFF reports substantivity of more than 48 hours.

3. FUNCTION IN FRAGRANCE COMPOSITIONS

A diffusive base note with a pronounced heart-note impact. It acts as a modifier and accent in woody amber bases. At low levels it adds depth and diffusion. At higher levels it can dominate the base.

Compared with Iso E Super, it has a more pronounced mineral ambergris character. It defines a woody amber base more strongly than Ethylene Brassylate and has a rounder odour than Ambrocenide.

Import and distribution for Serbia: Farmadria DOO
info@avenachem.com
+381 (0) 69 / 55 65 029
www.avenachem.com

TECHNICAL DATA SHEET

4. APPLICATION AND COMPATIBILITY

Used in amber, woody, musk, aquatic, fougère and oriental fragrances, as well as in citrus, aromatic and floral-woody compositions.

Amber and woody	Iso E Super, Cedramber, Cashmeran, Norlimbanol, Amber Xtreme
Musk	Ethylene Brassylate, Galaxolide, Habanolide, Ambrettolide
Floral	Hedione, Phenylethyl Alcohol, Linalool, Benzyl Salicylate
Citrus and aromatic	Bergamot Oil, Grapefruit Oil, Dihydromyrcenol, Linalyl Acetate, Lavender Oil
Balsamic and gourmand	Labdanum, Benzoin Resinoid, Vanillin, Coumarin
Aquatic and mineral	Calone and other ozonic materials

5. RECOMMENDED USE

Typical use level: Trace levels to 5% in the fragrance concentrate. Adjust the dose to the desired intensity and character of the composition.

Incorporation: Dissolve the crystals in ethanol or another suitable perfumery solvent before adding them to the concentrate. Verify solubility when using ester or glycol solvents.

6. PHYSICAL AND TECHNICAL DATA

Appearance and colour at 20 °C	White crystalline powder
Odour	Woody amber, sweet and musky, with mineral and faint animalic nuances
Ambroxide assay (GC)	> 99%
Melting point	> 75 °C
Flash point	161 °C
Optical rotation	−25.5° to −24.3° (supplier catalogue data)
Vapour pressure at 23 °C	0.000465 mmHg
Solubility	1 g in 10 mL of 95% ethanol. Insoluble in water.
Log P	5.9 (IFF). A reference value of 4.76 applies to another manufacturer’s ambroxide.
Boiling point	Approx. 276.8 °C (ambroxide reference value)
Density at 20 °C	Not specified
Acid value	Not specified
pH	Not applicable to the neat crystalline substance

Import and distribution for Serbia: Farmadria DOO
info@avenachem.com
+381 (0) 69 / 55 65 029
www.avenachem.com

TECHNICAL DATA SHEET

7. STABILITY AND COMPATIBILITY

Ambroxide is stable under the recommended storage conditions. Solubility depends on temperature, solvent composition and concentration.

Recrystallisation may occur if the solution is supersaturated or cooled. Check clarity after cooling and dilution, and verify stability in the finished formulation and its packaging.

8. REGULATORY INFORMATION AND STATUS

Intended use: For professional use in perfumery and fragrance formulations.

IFRA: Verify compliance of the fragrance composition with the applicable IFRA Standards and supplier documentation for the finished product category.

9. STORAGE AND SHELF LIFE

Store in the original, tightly closed container in a cool, dry place, protected from light.

Quality recheck: If stored for more than 24 months, check product quality before use.

10. SAFETY INFORMATION

The material is intended for incorporation into formulations. Refer to the current Safety Data Sheet (SDS) for Ambermor IFF for hazard classification, safe handling, first aid and disposal.

11. DISCLAIMER

The information in this technical data sheet applies to the material described. 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.