

TECHNICAL DATA SHEET

Ambrofix 10%

Product Name: Ambrofix 10% (synonyms: ambroxan, ambroxide)

Trade names: Ambrofix (Givaudan); Ambrox (Firmenich); Ambroxan (Perfumer's Apprentice); Ambermor (IFF); Ambermox; Orcanox; Cetalox laevo;

Synonyms: Ambremore; Synambrane; Cétalox; Ambrofix; Amber ether; Amberxan; Ambermox; Amberol; Ambronica; Ambroxene; 8- α -12-oxido-13,14,15,16-tetranorlabdane; Dodecahydrotetramethyl naphthofuran; Lanbroxyde; Orcanox; Superamber

Chemical classification: Mixture

Functional category: Aroma chemical; perfume ingredient, fragrance fixative

Chemical name: 3a,6,6,9a-Tetramethyldodecahydronaphtho[2,1-b]furan

CAS number: 6790-58-5, 25265-71-8

EC number: 229-861-2

Formula: C₁₆H₂₈O

Description: Ambrofix crystals are pre-dissolved in a solvent—dipropylene glycol (DPG)—at a concentration of 10%. Givaudan's description: "Ambrofix is a very powerful, substantive, and highly stable amber note for use in all applications. It is the most suitable material for achieving an authentic ambergris note. Derived from a natural raw material, this chiral product contains a single high-impact isomer." Even in traces up to 2%, the scent lasts on a blotter for more than a month. Ambrofix is one of the most useful chemicals in modern perfumery. It is commercially available as a 5% solution, a 10% solution, or in the form of fine crystals that dissolve in ethanol and other solvents. At room temperature, Ambrofix crystals show good solubility in ethanol (10%), but require thorough mixing; the solution should not be heated due to the presence of alcohol and fire hazards. At lower temperatures and concentrations above 5% in ethanol, it crystallizes.

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Application: Excellent fixative. Used in perfume manufacturing. Stable in body lotions, shampoos, soaps, roll-on powders, and powders.

Scent: Woody, cedarwood, floral, leafy. The 10% Ambrofix solution is used in concentrations ranging from 0.1% to 2%.

Method of production: Ambrofix is synthetically derived from sclareol, a component of clary sage essential oil. Sclareol undergoes oxidative degradation to yield a lactone, which is then hydrogenated to the corresponding diol. The resulting compound is subsequently dehydrated. The final product is ambroxide (ambroxan). Along with ambrinol and a few others, Ambrofix is one of the primary odor molecules present in natural ambergris, characterized by typical amber, woody, and dry notes. A fragrance with an exalting effect.