



ELAROMA - CNAL™ (Cinnamic Aldehyde)

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	Pale yellow to yellow liquid
Physical Form	Liquid
Odor	Strong odor of cinnamon
Molecular Weight (g/mol)	132.16
Density or Specific Gravity	1.048-1.052 at 25 °C
Refractive Index	1.618-1.623 at 20 °C/D
Chemical Properties	
pKa	0[at 20 °C]
Water Solubility	Slightly soluble
Incompatibilities	Strong oxidizing agents, strong bases
Thermal Properties	
Melting Point	-7.5 °C
Boiling Point	253 °C
Flash Point	160 °F
Solubility	
Water	~0.23-0.31%
Ethanol	Miscible
Methanol	Miscible
Diethyl ether	Miscible
Benzene	Miscible
Petroleum ether	Miscible
Chloroform	Miscible
Flavoring oils	Miscible

2. Processing Methods



Perfume

Pre-dilute in a solvent to improve blending and control intensity. Pair with oriental, woody, or gourmand notes like vanilla, clove, or amber to create warm, rich accords. Use at low levels as it has a very strong, spicy-cinnamon scent and can easily overpower a blend.

Key Ingredients	Indicative Dosage (% w/w)
Cinnamic Aldehyde	0.01%
Eugenol	1%
Iso Eugenol	0.5%
Coumarin	1.5%
Benzyl Salicylate	5%
Linalool	5%
Linalyl Acetate	4%
Benzyl Acetate	3%
Geraniol	2%
Hydroxycitronellal	3%
Citronellol	3%
Phenylethyl Alcohol	8%
Hexyl Cinnamic Aldehyde	10%
Vanillin	1.5%
Methyl Dihydrojasmonate (Hedione)	6%
Iso E Super	10%
Galaxolide 50%	12%
Ambroxan	4%
Patchouli Oil	5%
Sandalore	5%
Cashmeran	3%
Fixative blend (e.g., DPG, TEC)	~10%



Shampoo

Use at low levels as it is highly potent and can be irritating at higher concentrations. Add during the cool-down phase, to preserve its fragrance and avoid volatility loss. Pre-mix with a solubilizer for proper dispersion in the water-based shampoo.

Key Ingredients	Indicative Dosage (% w/w)
Sodium laureth sulfate	20%
Sodium lauroamphoacetate	5%
Cocoamphodiacetate	3%
Soybean oil	2%
Citric acid	1.5%
Fragrance blend (contains cinnamic aldehyde)	0.5%
Water	68%

Detergents

Use at low levels, as it has a strong spicy scent and potential for skin irritation in higher doses. Add during the final mixing stage, after cooling, to preserve its fragrance and prevent volatilization. Ensure pH compatibility, as high-pH detergents may cause degradation.

Key Ingredients	Indicative Dosage (% w/w)
Sodium C12-C14 linear alkylbenzene sulfonate	18%
Alcohol ethoxylate (non-ionic surfactant)	8%
Sodium carbonate	5%
Zeolite or citrate builder	5%
Enzyme blend (protease/amylase)	0.5%
Polycarboxylate polymer	1%
Perfume composition (includes cinnamic aldehyde)	1%
Optical brightener	0.2%
Preservative (e.g., benzisothiazolinone)	0.2%
Sodium citrate	1%
Water	60%



Cosmetic cream

Use at very low levels, as it is a strong fragrance and known skin sensitizer. Add during the cool-down phase, to protect its aroma and prevent degradation. Pre-dilute in a suitable carrier (e.g., caprylic/capric triglyceride or fragrance oil) to ensure even distribution in the cream base.

Key Ingredients	Indicative Dosage (% w/w)
Water	~70%
Glycerin	5%
Caprylic/Capric Triglyceride	4%
Cetearyl Alcohol	3%
Glyceryl Stearate	2.5%
Dimethicone	1%
Phenoxyethanol	0.8%
Ethylhexylglycerin	0.2%
Carbomer	0.3%
Triethanolamine	0.2%
Tocopherol	0.2%
Cinnamic Aldehyde	0.01%
Fragrance blend	0.5%
Panthenol	0.5%
Disodium EDTA	0.1%
Allantoin	0.1%

3. Dosing by Application

Products	Authorized dosage
Perfume/Fragrance	Upto 0.01%
Cosmetics	Upto 0.01%

The information and data contained herein are believed to be accurate but may not be all inclusive and should only be used as a guide. The information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the product for his particular use and on condition that they assume the risk of the use thereof.

EXPLORE ELCHEMY'S PRODUCT PORTFOLIO

[ELAROMA - CNAL™ \(Cinnamic Aldehyde\)](#) | [Browse Catalog](#) | [Connect with us](#)