



ELAROMA - DPEOx™ (Di Phenyl Oxide)

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	Colorless solid (crystalline), colorless to straw-yellow liquid
Physical Form	Crystalline
Odor	Geranium-like odor
Molecular Weight (g/mol)	170.21
Density or Specific Gravity	1.07 at 80.6 °F
Viscosity	3.4909X10-3 Pa-sec at melting point
Refractive Index	1.5787 at 25 °C/D
Density	1.07 at 80.6 °F
Thermal Properties	
Melting Point	80.3 °F
Boiling Point	496.27 °F at 760 mmHg
Flash Point	239 °F
Autoignition Temperature	1148 °F

2. Processing Methods



Perfume Oil

Use at 0.1-2%, as it adds a warm, floral, slightly metallic note and enhances violet, rose, and powdery accords. Add directly to the perfume concentrate, ensuring it's well mixed before alcohol dilution for a stable final blend.

Key Ingredients	Indicative Dosage (% w/w)
Diphenyl Oxide	0.5%
Linalool	15%
Hexyl Cinnamic Aldehyde	10%
Phenylethyl Alcohol	20%
Geraniol	10%
Iso E Super	20%
Hedione	10%
Galaxolide	10%
Dipropylene Glycol (DPG)	4.5%

Shampoo

Use at low levels as it has a strong floral, violet-like scent that boosts the fragrance profile. Add during the cool-down phase, to prevent volatility loss and maintain fragrance quality.

Key Ingredients	Indicative Dosage (% w/w)
Water	~60-65%
Sodium Laureth Sulfate	15%
Cocamidopropyl Betaine	6%
Glycerin	3%
Citric Acid	0.3%
Polyquaternium-10	0.2%
Disodium EDTA	0.1%
Preservative (e.g. Phenoxyethanol)	0.8%
Fragrance Blend	11%
Diphenyl Oxide	0.2%



Soap

Add during the fragrance phase, when the soap base has cooled to prevent evaporation and scent loss. Blend with other floral or aldehydic notes to create soft, lingering accords in both cold and hot process soaps.

Key Ingredients	Indicative Dosage (% w/w)
Sodium Palmate	40%
Sodium Palm Kernelate	25%
Water	15%
Glycerin	5%
Sorbitol	5%
Titanium Dioxide	1%
Tetrasodium EDTA	0.1%
BHT	0.2%
Fragrance Blend	~8%
Diphenyl Oxide	0.2%

Cosmetic cream

Add during the cool-down phase, to prevent volatility and maintain fragrance integrity. Pre-mix with fragrance oils or a solubilizer to ensure uniform distribution in the cream emulsion.

Key Ingredients	Indicative Dosage (% w/w)
Water	~70%
Glycerin	5%
Cetearyl Alcohol	4%
Caprylic/Capric Triglyceride	5%
Glyceryl Stearate	3%
Dimethicone	2%
Phenoxyethanol	0.8%
Ethylhexylglycerin	0.2%
Carbomer	0.3%
Triethanolamine	0.2%
Tocopherol (Vitamin E)	0.3%
Fragrance Blend	~9%
Diphenyl Oxide	0.2%



3. Dosing by Application

Products	Authorized dosage
Perfume/Fragrance	0.1% - 0.5%
Cosmetic Products	~0.01% - 0.1%

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.

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