



ELHUME - DPG™ (Dipropylene Glycol)

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	Clear, colorless liquid
Physical Form	Clear, colorless liquid
Odor	Practically odourless, slightly ethereal
Molecular Weight	134.17 g/mol
Density (20°C)	1.035-1.038 g/cm ³
Viscosity (20°C)	107 cP
Refractive Index (20°C)	1.439 - 1.442
pH (20°C)	7 - 8
Assay / Purity	99.50 min W/%
Color (Pt-Co)	10 max (Hazen)
Moisture	0.10 max W/%
Acidity (as Acetic Acid)	0.010 max W/%
Chemical Properties	
Incompatibilities	Avoid contact with strong oxidizing agents, strong acids, strong bases, isocyanates, and zinc. May attack some plastics, rubber, and coatings.
Hazardous Decomposition Products	Decomposition products can include carbon oxides (CO, CO ₂), aldehydes, alcohols, ethers, organic acids, and other toxic vapors.
Thermal Properties	
Melting Point	-40 °C
Boiling Point	230 °C
Flash Point	128 - 138 °C (closed cup)
Autoignition Temperature	310 - 350 °C
Thermal Stability	Stable under recommended storage conditions. Exposure to elevated temperatures can cause product to decompose.
Solubility	
Solubility in Water	Miscible



Property	Specification
Solubility in Ethanol	Soluble / Miscible
Solubility in Methanol	Miscible
Solubility in Acetone	Miscible
Solubility in Diethyl Ether	Miscible
Solubility in Glycerol	Miscible
Solubility in Benzene	Miscible

2. Processing Methods

Reed Diffuser Base

A typical formulation for home fragrance reed diffusers.

Key Ingredients	Indicative Dosage (% w/w)
Fragrance Oil	20.00 - 40.00%
Dipropylene Glycol	60.00 - 80.00%
Perfumer's Alcohol	0.00 - 10.00%

Alcohol-Free Perfume Oil

A simple, two-ingredient formulation for a roll-on or dab-on perfume.

Key Ingredients	Indicative Dosage (% w/w)
Fragrance / Essential Oils	15.00 - 25.00%
Dipropylene Glycol	75.00 - 85.00%

Body & Room Spray

A water-based spray formulation where Dipropylene Glycol acts as a co-solvent and humectant.

Key Ingredients	Indicative Dosage (% w/w)
Fragrance Oil	5.00 - 10.00%
Dipropylene Glycol	10.00 - 20.00%
Solubilizer (e.g., Polysorbate 20)	5.00 - 15.00%
Deionized Water	q.s. to 100%
Preservative	As required

3. Dosing by Application



Application	Recommended / Max Dosage
Perfumes & Colognes	1.0 - 50.0%
Alcohol-Free Perfume Oils	75.0 - 85.0%
Lotions, Creams & Mists	1.0 - 20.0%
Skincare (General)	2.0 - 10.0%
Deodorant Gels	10.0 - 15.0%
Reed Diffusers	20.0 - 80.0%

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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