



ELAROMA – IAO™ (Isoamyl Alcohol)

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	Clear, colorless liquid
Physical Form	Liquid
Odor	Characteristic odor
Molecular Weight (g/mol)	88
Density or Specific Gravity	0.81 at 68 °F
Viscosity	3.738 cP @ 25 °C
Refractive Index	1.4075 @ 20 °C/D
Density	0.81 at 68 °F
Chemical Properties	
Water Solubility	2.5 g/100ml
Hazardous Reactions	Castor oil can develop heat spontaneously in the air
Thermal Properties	
Melting Point	-179 °F
Boiling Point	270 °F at 760 mmHg
Flash Point	114 °F
Autoignition Temperature	662 °F

2. Processing Methods



Perfume

Use at very low levels (0.1-1%), as it has a sharp, fusel-like odor but can boost the diffusiveness of fruity and green notes. Add during the initial blending phase with other aroma chemicals before dilution with alcohol.

Key Ingredients	Indicative Dosage (% w/w)
Isoamyl Alcohol	0.1%
Linalool	15%
Benzyl Acetate	10%
Phenylethyl Alcohol	10%
Hexyl Cinnamic Aldehyde	10%
Hedione	10%
Iso E Super	15%
Galaxolide	10%
Musk Ketone	5%
Dipropylene Glycol (DPG)	15%

Detergents

Use at low levels, mainly as a fragrance booster or solvent to enhance the lift of fruity or green top notes. Add during the final blending phase, after cooling, to minimize evaporation and preserve volatile aroma.

Key Ingredients	Indicative Dosage (% w/w)
Sodium Linear Alkylbenzene Sulfonate (LAS)	18%
Alcohol Ethoxylate	8%
Sodium Carbonate	5%
Sodium Citrate	5%
Enzyme Blend (Protease, Amylase)	0.5%
Polyacrylate	1%
Fluorescent Whitening Agent (e.g., Tinopal CBS-X)	0.2%
Methylisothiazolinone	0.2%
Fragrance composition	~1.5%
Isoamyl Alcohol	0.15%
Water	~60-70%



Cosmetic lotion

Use at low levels, as it has a strong odor and functions mainly as a fragrance enhancer or solvent. Add during the cool-down phase, to preserve its volatility and prevent unwanted scent changes.

Key Ingredients	Indicative Dosage (% w/w)
Water	~75%
Glycerin	5%
Cetearyl Alcohol	3%
Glyceryl Stearate	2%
Caprylic/Capric Triglyceride	5%
Isoamyl Alcohol	0.01%
Dimethicone	3%
Phenoxyethanol + Ethylhexylglycerin	1%
Carbomer	0.3%
Triethanolamine	0.2%
Tocopherol (Vitamin E)	0.5%
Fragrance (optional)	~2%

3. Dosing by Application

Products	Authorized dosage
Perfume/Fragrance	0.001% - 0.1%
Cosmetic Care	0.001% - 0.1%

4. Grade Comparison Summary

Parameter	Technical Grade
Purity (%)	≥95%
Isoamyl Content	~95% (mixed isomers)
Appearance	Colorless to pale liquid
Usage/Application	Solvent, chemical synthesis
Regulatory Compliance	None
Typical Impurities	Mixed fusel oils



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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