



ELVISC - CT055™ (Cetostearyl Alcohol)

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	Yellow to amber liquid; White waxy solid; flakes; granules; pellets; pastilles
Physical Form	Granules
Odor	Odorless
Molecular Weight (g/mol)	512.9
Density or Specific Gravity	0.8[at 20°C]
Viscosity	53 cP
pH (if aqueous solution)	6
Chemical Properties	
Water Solubility	72.197µg/L at 25°C
Thermal Properties	
Melting Point	51 - 53°C
Boiling Point	330.79°C
Solvent	
Water (hot)	Slightly soluble
Ethanol	Soluble
Ether	Soluble
Light Petroleum	Soluble
Oils	Miscible (when melted)

2. Processing Methods



Cosmetic creams

When incorporating Cetearyl Alcohol into cosmetic creams, melt it during the oil phase heating to ensure uniform blending. Combine with emulsifiers to enhance emulsion stability and improve cream texture. Avoid overheating to prevent degradation.

Key Ingredients	Indicative Dosage (% w/w)
Refined Jojoba Oil	28%
Cetearyl Alcohol	5%
Cupuacu Butter (refined grade)	4%
Dimethicone	0.2%
Behenyl Alcohol	3%
Polysorbate	2.5%
Polyglceryl-5 Trioleate	0.7%
Glyceryl Stearate SE	3%
Phenoxyethanol	0.4%
Butylene Glycol	5%
Xanthan Gum	5%
Soy Extract SK	3%
Pashanbheda Extract SK	1%
Water	20-30%



Hair shampoo

When adding Cetearyl Alcohol to hair shampoos, pre-melt it and add during the heated phase to ensure proper dispersion. Ensure compatibility with surfactants to avoid destabilization. Cool under gentle mixing to maintain creamy texture.

Key Ingredients	Indicative Dosage (% w/w)
Water	65%
Sodium Lauryl Ether Sulfate (SLES)	15%
Cocamidopropyl Betaine	7%
Cetearyl Alcohol	5%
Glycol Distearate	2%
Preservative (e.g., Phenoxyethanol)	1%
Fragrance	0.5%
Citric Acid	0.3%
Sodium Chloride	4.2%
Panthenol (Pro-Vitamin B5)	0.5%

Lipstick

In lipstick production, melt Cetearyl Alcohol with the oil and wax phase to ensure uniform blending and smooth texture. Add it gradually and mix thoroughly to improve structure, stability, and glide without graininess.

Key Ingredients	Indicative Dosage (% w/w)
Waxes	8-20%
Oils	30-80%
Colorants	3-10%
Cetearyl Alcohol	0.5-10%
Other emollients/additives	



Makeup foundations

In foundation formulation, melt Cetearyl Alcohol with the oil phase to enhance emulsion stability and provide a smooth, creamy texture. Incorporate it before combining with the aqueous phase for optimal thickening and skin feel.

Key Ingredients	Indicative Dosage (% w/w)
Dimethicone	10%
Glycerin	5%
Titanium Dioxide	3%
Cetearyl Alcohol	2%
Phenoxyethanol	0.8%
Carbomer	0.5%
Triethanolamine	0.3%
Water	60-70%
Pigments, Fragrance	

3. Dosing by Application

Products	Authorized dosage
Hair Conditioners	1-5%
Hair Rinse, Shampoo (Coloring/Non-Coloring)	0.1-1%
Bath Soaps And Detergents	1-5%

4. Grade Comparison Summary

Parameter	50:50
Cetyl:Stearyl Ratio	50:50
Purity (%)	≥95
Form (25°C)	Solid flakes or beads
Usage/Application	Balanced emulsifier for personal care
Compliance	TSCA, INCI, REACH

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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