



ELSURFAC - GCA™ (PEG-7-Glycerol Cocoate)

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	Clear to slightly yellow liquid
Physical Form	Liquid
Odor	Characteristic / Faint / Bland
Molecular Weight	approx. 600 g/mol
Density / Specific Gravity	1.05 g/cm ³
Viscosity	169 - 171 mPa*s (at 20°C)
pH (aqueous solution)	5.0-8.0
Assay / Purity	> 99%
HLB Value	11.5
Product Information	
Chemical Name	PEG-7 Glyceryl Cocoate
CAS Number	68201-46-7
Molecular Formula	C ₂₁ H ₄₂ O ₆
Description	A non-ionic, ethoxylated polyethylene glycol ester made from glycerin and coconut oil. It is used in personal care products as an emulsifier, emollient, skin-conditioning agent, and solubilizer.
Known Applications	Emulsifier, Moisturizer, Surfactant, Conditioner, Solubilizer
Chemical Properties	
Ionic Nature	Non-ionic
Incompatibilities	Strong acids, Strong bases
Hazardous Reactions / Decomposition Products	Under fire conditions, may release carbon monoxide and carbon dioxide. Under normal use, no hazardous decomposition products are expected.
Thermal Properties	
Melting Point	< 0 °C
Freezing Point	< 5°C
Boiling Point	> 100 °C



Property	Specification
Flash Point	262 °C
Thermal Stability	Stable under normal conditions.
Solubility	
Solubility in Water	Soluble / Freely soluble
Solubility in Ethanol	Soluble
Solubility in Acetone	Very well soluble
Solubility in Oils	Insoluble

2. Dosing by Application

Application	Recommended / Max Dosage
General Use	1 - 10%
Hair & Skin Care Products	1.0 - 5.0%
Cleansing Products (Shampoos, Shower Gels)	0.5 - 3%
Cleansing Products (Shampoos, Shower Gels)	1 - 3%
Emulsions, Lotions, Creams	up to 5%
Leave-on Products	up to 10%
Makeup Remover	2 - 3%
General Cosmetic Use	2 - 7%
General Washing/Transparent Gels	0.5 - 5.0%

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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