



ELSURFAC - PEG120/MGdO™ (PEG-120 Methyl Glucose Dioleate)

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	Viscous liquid. Also available as a light yellow to white flake or waxy solid.
Physical Form	Viscous Liquid
Odor	Mild, characteristic
Molecular Formula	C35H68O12
Molecular Weight	~5800 g/mol
Density	1.05 g/cm ³
Viscosity	Forms a gel-like structure in water, with viscosity increasing significantly at higher concentrations.
Refractive Index	1.46
pH (10% aqueous solution, 25°C)	4.5 - 7.5
Assay / Purity	98-99%
Chemical Properties	
Ionic Nature	Non-ionic
Incompatibilities	Stable under normal conditions. Avoid strong acids and alkalis.
Hazardous Reactions / Decomposition Products	Under fire conditions, can produce carbon monoxide, carbon dioxide, and other unknown hydrocarbons.
Thermal Properties	
Melting Point	Not applicable
Boiling Point	Not applicable
Flash Point	299°C
Thermal Stability	Stable under normal ambient temperature and conditions.
Solubility	
Solubility in Water	Highly soluble. Can be dissolved by heating water to 50-60°C.
Solubility in Ethanol	Highly soluble
Solubility in Acetone	Soluble



Property	Specification
Solubility in Chloroform	Soluble

2. Dosing by Application

Application	Recommended / Max Dosage
General Use (Cosmetics)	0.5% - 3.0%
General Use (Cosmetics)	0.1% - 5.0%
Hair and Skin Care Products	0.2% - 5.0%
Shampoos & Cleansing Products	2.0% - 6.0%
Liquid Cleansing Compositions	0.01% - 0.5%

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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