

TECHNICAL DATA SHEET

Product Name: Glycol Distearate

INCI Name: Glycol Distearate

CAS: 627-83-8

Synonyms: Sabowax EGDS, Ethylene glycol monostearate; Glycol monostearate; Octadecanoic acid, 2-hydroxyethyl ester

Chemical Classification: Ester

Functional Category: Emulsifier, Viscosity Modifier, Skin Conditioning Agent ~ Occlusive, Opacifying Agent

IUPAC Name: 1,2-Ethanediy l dioctadecanoate

Description: Glycol distearate is a self-emulsifying emulsifier and thickener. It helps to blend water and oil in cosmetic formulations into a stable mixture, contributing to a creamy consistency. As a thickener, it increases the product's viscosity, creating a dense and pleasant texture that improves application and user experience. Glycol distearate forms a thin, imperceptible layer on the skin's surface, helping to reduce moisture loss. This protective layer prevents water evaporation from deeper layers of the skin, leaving the skin hydrated for longer, contributing to a soft and smooth feel. Due to its unique structure that reflects light, Glycol distearate is also used as a pearlescent agent, adding an attractive, pearly sheen to cosmetic products. When added to shampoo, shower gels, or lotions, this ingredient enhances the luxurious appearance of the product, making it glossy and appealing. It is compatible with anionic, cationic, nonionic, and amphoteric surfactants. Appears as shiny flakes, with a faint odor, insoluble in water, and dispersible in water and oils. Melting point: 60-63°C. HLB value = 5-6.

Benefits:

- Stabilizes emulsions, preventing phase separation and allowing for even distribution of ingredients.
- Contributes to a creamy and smooth consistency, easing application on skin or hair.

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- Provides a pearlescent or shimmering effect to products, enhancing visual appeal.
- Helps create a rich foam in shampoos and gels, enhancing the cleansing experience.
- Offers a moisturizing feel, contributing to the overall sensory experience of moisturizers and lotions.
- Stabilizes the pH of formulations, maintaining the efficacy of active ingredients and product stability.

Usage: Glycol distearate is used in various cosmetic products, such as shampoos, shower gels, creams, and lotions, with recommended concentrations depending on the type of formulation and desired effects. In shampoos and shower gels, where it is used for its pearlescent effect and creamy texture, it is typically added at concentrations of 1% to 4%. In moisturizers and lotions, it is used in concentrations between 2% and 6% to provide a richer texture and emulsion stability. This ingredient is generally added in the heating phase of the formulation, as it is stable at higher temperatures, which ensures a uniform blend and even distribution in the final product.

Source of Raw Materials: Vegetable oils

Method of Production: Glycol distearate is obtained by esterifying stearic acid or its esters with ethylene glycol.

Animal Testing: This substance has not been tested on animals.

GMO: Non-GMO

Vegan: Contains no animal-derived components

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