

TECHNICAL DATA SHEET

Product Name: Glyceryl Stearate Citrate

INCI Name: Glyceryl Stearate Citrate

CAS: 55840-13-6, 86418-55-5

Chemical Classification: Glycerol Ester - Derivative

Functional Category: Surfactant, Emulsifier, Skin Conditioning Agent, Emollient

Description: Glyceryl Stearate Citrate is an anionic O/W emulsifier and emollient, an ester of glycerin, stearic acid, and citric acid. It is widely used in cosmetics and personal care products as an emulsifier and skin conditioning agent. Its properties make it particularly suitable for formulations where a light, smooth texture is desired. It is suitable for creating emulsions with a slightly acidic pH and emulsions with UV filters. HLB value of 12. It is soluble in oil and partially in water.

Characteristics: A potent emulsifier for creating O/W emulsions. Supports consistency and increases oil-binding capacity. Can be used as a co-emulsifier in so-called "PEG-free" formulations. Makes skin soft and smooth. Can be used by individuals with sensitive skin.

Benefits:

- **Emulsifying Properties:** Acts as an effective emulsifier, helping in mixing and stabilizing the oil and water phases of a product. This is crucial for creating lotions, creams, and other emulsified formulations that have a uniform texture and appearance.
- **Skin Conditioning:** As a skin conditioning agent, it helps in softening and smoothing the skin. Hydrates and improves skin texture, which is especially useful in products intended for dry or sensitive skin.
- **Moisturizing Effects:** Retains moisture in the skin, reducing water loss and keeping the skin hydrated for longer periods. This hydration is key to maintaining the skin's elasticity and overall healthy appearance.
- **Improved Texture:** Glyceryl Stearate Citrate can improve the sensory characteristics of cosmetic products. Helps achieve a desirable consistency, making products easier to apply.
- **Stability:** Contributes to the stability of cosmetic formulations, preventing

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ingredient separation, and extending product shelf life.

- **Compatibility with Sensitive Skin:** Does not cause irritation or adverse reactions, making it an excellent choice for formulations intended for individuals with sensitive skin.

- **Natural Origin:** Obtained from vegetable sources, making it attractive to those looking for products with natural ingredients. This aligns with the growing consumer demand for more natural and sustainable cosmetic products.

- **Eco-Friendly Option:** Being biodegradable, it is considered an eco-friendly ingredient. This aspect is increasingly important to consumers who are aware of the environmental impact of their cosmetic purchasing decisions.

Usage: Pellets are added to the hot oil phase (about 80°C / 176°F). The oil phase is mixed until homogenized, then combined with the warm water phase. Typical usage level is 1.5 - 2.5%. Creates stable emulsions in the pH range of 5.5 – 8.0. For external use only.

Applications: Creams, lotions, baby care products, sun protection and after-sun products.

Source Raw Material: Soybean Oil

Method of Obtaining: Glyceryl Stearate Citrate is a combination of glycerin mono-/distearates and esters of citric acid from mono- and diglycerides. Glyceryl Stearate is obtained by reacting glycerin with stearic acid, derived from soybean oil.

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

GMO: Non-GMO

Vegan: Does not contain animal-derived components.