

TECHNICAL DATA SHEET

Product Name: Polyglyceryl-10 Laurate

INCI Name: Polyglyceryl-10 Laurate

CAS: 34406-66-1

Chemical Classification: Glycerol ester/derivative

Functional Category: Skin conditioning agent, co-surfactant/co-emulsifier, solubilizer

Origin of Raw Material: Spain

Description: Polyglyceryl-10 Laurate is a non-ionic polyglycerol ester of lauric fatty acid, PEG-free. It is used as a detergent/foaming agent, as well as a solubilizer for perfumes and essential oils. Compared to other polyglycerol fatty acid esters, this ingredient has a high HLB value (HLB = 18). It is a clear to slightly yellowish liquid, with a characteristic smell.

Benefits:

- **Improves Product Texture:** As an emulsifier, it allows for a fine blending of water and oil. Final products acquire a smooth and pleasant texture that is easy to apply to the skin, leaving no greasy or sticky feeling.
- **Increases Formulation Stability:** Helps maintain the stability of emulsions, extending the product's shelf life.
- **Gentle on Skin:** Considered to be a gentle and non-irritating agent, making it suitable for products intended for sensitive skin.
- **Enhances Skin Moisture:** As a skin conditioning agent, it can help retain moisture in the skin, leaving it soft and hydrated.
- **Eco-friendly Option:** Considered an environmentally friendly choice due to its biodegradability and the use of renewable raw materials in production.

Usage: As a solubilizer for perfumes and essential oils, it is used at a ratio of 5:1 or 10:1 with the substances to be dissolved. Substances being dissolved are mixed with Polyglyceryl-10 Laurate until a clear solution is achieved, then the aqueous phase is added. To facilitate solubilization, a solvent such as propanediol can be used at a 1:1 ratio with

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Polyglyceryl-10 Laurate. In the case of substances that are difficult to dissolve and which create a milky solution, the addition of 5%-20% ethanol can help (improving transparency). As a co-emulsifier, it is mixed with the rest of the surfactant base or simply dissolved in water. In some surfactant systems, there may be a slight reduction in viscosity, and in such cases, the viscosity must be adjusted at the end of the process (e.g., slightly increase the concentration of electrolytes). As a co-emulsifier, it is used at concentrations of 0.7 – 2.8%.

Application: 100% natural solubilizer, excellent for creating top-notch, clear, aqueous formulations, such as toners, micellar waters, solutions for wet wipes, body washes, liquid soaps, shampoos, and hair conditioners.

Animal Testing: The substance has not been tested on animals

GMO: Non-GMO

Vegan: Does not contain animal-derived components

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