



POLERYL 10 LA

INCI NAME: **POLYGLYCERYL-10 LAURATE**
CAS NUMBER: **34406-66-1**

Poleryl 10 LA is a non-ionic, PEG-free, surfactant of natural origin, produced by the esterification reaction of Polyglyceryl-10 with Lauric Acid.

Poleryl 10 LA is used as a solubilizer for clear, natural formulations and as a co-surfactant/secondary surfactant for cleansing products, particularly suitable for innovative toiletries.

Poleryl10 LA has a ISO 16128 natural origin index of 1.

PHYSICAL / CHEMICAL PROPERTIES

| | |
|-----------------------|----------------------|
| Appearance: | clear viscous liquid |
| Color: | 100 APHA max. |
| Acid value: | 5,0 max. |
| Saponification value: | 30 – 50 |
| 5% water solution: | clear and complete |
| HLB: | 17 about |

APPLICATIONS

AS A SOLUBILIZER

Poleryl 10 LA is widely used as a solubilizer for premium, PEG-free, water-based natural formulations such as tonics, micellar waters, wet-wipe solutions, body washes, liquid soaps, shampoos and hair conditioners. To solubilize most perfumes and essential oils, **Poleryl 10 LA** is used at a 5:1 - 10:1 ratio with the substances to be solubilized. The substances to be solubilized must be mixed with **Poleryl 10 LA** until a transparent solution is achieved, then aqueous phase is added. To facilitate solubilization, a solvent like Propanediol (in a 1:1 ratio with **Poleryl 10 LA**) can be used. In case of substances difficult to be solubilized, the addition of 5%-20% ethanol improves transparency.

AS A SURFACTANT

Poleryl 10 LA can be used as a surfactant at 0,5-2,0% concentrations. **Poleryl 10 LA** does not require any special procedure to be incorporated, is sufficient to pre-mix with the rest of the surfactant base or dissolve it in water. In some surfactant systems, a slight reduction of viscosity may occur and, in such a case, viscosity must be adjusted at the end of the process (e.g. slightly increasing the concentration of electrolytes).

Poleryl10 LA has a ISO 16128 natural origin index of 1.



BENEFITS AT A GLANCE

- PEG-free solubilizer
- Texturizing and sensory improvement properties
- Co-surfactant for innovative toiletries
- 100% naturally derived
- Easily pourable at a temperature >25°C

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