

## POLERYL 10 LA

<b>INCI NAME:</b>	POLYGLYCERYL-10 LAURATE
<b>CAS NUMBER:</b>	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.

Poleryl 10 LA has a ISO 16128 natural origin index of 1.

SPECIFICATIONS	
Appearance:	clear viscous liquid
Colour:	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 premix 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).

## 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