

# BERNEL CHEMICAL CO. INC.

Division of Alzo International Inc.

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## TECHNICAL BULLETIN

### Bernel Ester OPG

Chemical Name: 2-Ethylhexyl Pelargonate  
INCI Name: Ethylhexyl Pelargonate  
CA Index Name: 59587-44-9  
EINECS Number: 261-819-9

#### SPECIFICATIONS:

Appearance @ 25°C	Clear Liquid
Color, APHA	150 Max
Odor	Mild
Specific Gravity @ 25°C	0.86 ± 0.005
Pounds per Gallon @ 25°C	7.16
Refractive Index @ 25°C	1.4340 – 1.4365
Molecular Weight (Theoretical)	270
Ester Content, %	98 Min
Freeze Point, °C	<-15
Acid Value, mg KOH/gram	1.0 Max
Free Organic Acid as Pelargonic (Mol. Wt. 158), %	0.3 Max
Saponification Value, mg KOH/gram	200 - 215
Iodine Value	Nil
Flash Point, °C, (COC)	Over 170

#### SOLUBILITY:

Soluble in most hydrophobic solvents, such as silicones, alcohols, esters, vegetable and mineral oils and aromatic hydrocarbons.

Dispersible in glycols, glycol ethers and glycerol.

#### SUGGESTED APPLICATIONS:

**Bernel Ester OPG**, a branched light moisturizing emollient ester, displays unique physical characteristics as a result of the branching. These positive features include low cloud point, low viscosity, good penetrating power without oiliness and excellent solubility and compatibility in a variety of ingredients such as esters, volatile silicones, mineral and vegetable oils. **Bernel Ester OPG** is recommended for numerous applications in the cosmetic and personal care use market; i.e., “oil-free” make-up, mascaras, and vanishing creams. This product helps to offset the greasy texture of mineral or vegetable oil, petrolatum and lanolin. It also acts as an anti-clogging agent in antiperspirants and provides a very soft, luxurious feel in skin creams and after shaves.

This information is believed to be reliable, but it is not to be construed as a warranty and no patent liability can be assumed.

