



Alzo International

TECHNICAL BULLETIN

DERMOL 99

Chemical Name	: 3,5,5-Trimethylhexyl-3,5,5-Trimethylhexanoate
INCI Name	: Isononyl Isononanoate
CA Index Name	: Hexanoic Acid, 3, 5, 5-Trimethyl-, 3, 5, 5-Trimethylhexyl Ester
CAS Number	: 59219-71-5
EINECS Number	: 261-665-2
Empirical Formula	: C ₁₈ H ₃₆ O ₂

TYPICAL PROPERTIES:

Appearance, 25°C	Clear Colorless Liquid
Color, APHA	5
Odor	Slight, Typical
Specific Gravity, 25°C	0.854
Pounds per Gallon, 25°C	7.10
Refractive Index, 25°C	1.4350
Molecular Weight (Av)	284
Freeze Point, °C	<-20
Acid Value, mg KOH/g	0.1
Free Acid as Isononanoic (mol wt 158), %	0
Saponification Value, mg KOH/g	197
Iodine Value	0
Flash Point, °C (COC)	135

SOLUBILITY:

Soluble in most alcohols, glycols, glycol ethers, esters, ketones, mineral oil, vegetable oils, silicones, aliphatic and aromatic hydrocarbons and chlorinated hydrocarbons.
Insoluble in water and glycerol

SUGGESTED APPLICATIONS:

Dermol 99 is a highly branched low molecular weight dry and silky ester that exhibits unique characteristics including extremely low freeze point, low viscosity, good penetrating power, excellent solubility and compatibility in a variety of ingredients such as esters, volatile silicones, mineral and vegetable oils. The unique properties of **Dermol 99** lend themselves for use in numerous cosmetic applications; for example, skin toners, bath oils, light creams and lotions. **Dermol 99** acts as a replacement for volatile silicones in antiperspirants where it reduces tackiness and prevents clogging in aerosols and as a resin plasticizer in hair sprays. It also functions as a binder for powder and pigments and gives a nice dry feel to powders and foundations.

All information contained herein is intended primarily to demonstrate the utility of ALZO products. Suggestions for uses or applications are only opinions. The user is responsible for determining the suitability of these products for their own particular purpose. We assume no liability in the presentation of this data, nor should this information be constructed as granting license to practice any methods or compositions of matter covered by U.S. or foreign patents.

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