

ALZO INTERNATIONAL INC.

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TECHNICAL BULLETIN

BERNEL ESTER DID

Chemical Name: Bis(1-Methylethyl) Dimerate
INCI Name: Diisopropyl Dimer Dilinoleate
CA Index Name: Dimer Acid, Bis(1-Methylethyl) Ester
CAS Number: 103213-20-3
EU (NLP) #: 500-288-2

TYPICAL PROPERTIES:

Appearance @ 25°C	Clear Light Yellow Liquid
Color, Gardner	3.0
Odor	Slight, Characteristic
Specific Gravity @ 25°C	0.900
Pounds per Gallon @ 25°C	7.5
Refractive Index @ 25°C	1.4650
Molecular Weight (Theoretical)	650
Freeze Point, °C	<-11.0
Acid Value, mg KOH/gram	2.0
Free Fatty Acid as Dimer Acid (Equiv. Wt. 284), %	1.0
Saponification Value mg KOH/gram	170
Iodine Value	10.0
Flash Point, °C, (COC)	Over 170

SOLUBILITY:

Soluble in most organic solvents such as silicones, alcohols, esters, ketones, mineral oil, vegetable oil, higher glycols, aliphatic, aromatic and chlorinated hydrocarbons.

Insoluble in water, lower molecular weight diols and triols.

SUGGESTED APPLICATIONS:

Bernel Ester DID is an excellent penetrating emollient ester finding use in numerous cosmetic applications. It appears to function as a barrier in creams and lotions and is also finding use in lipsticks and lip gloss as well as eye shadow formulations. **Bernel Ester DID** is also low in skin irritation and acts synergistically to reduce the irritation of many cosmetic formulations. It is a good dispersant and binder in pigmented products such as powders and foundations. It is also helpful in moisturizing preparations such as night creams and lotions.

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

