



Alzo International

TECHNICAL BULLETIN

BERNEL ESTER DISM

Chemical Name	: Bis(16-Methylheptadecyl) Hydroxy Butanedioate
INCI Name	: Diisostearyl Malate
CA Index Name	: Butanedioic Acid, Hydroxy-, Bis (16-Methylheptadecyl) Ester
CAS Number	: 67763-18-2
EINECS Number	: 247-041-6
Empirical Formula	: C ₄₀ H ₇₈ O ₅

TYPICAL PROPERTIES:

Appearance, 25°C	Slightly Hazy Viscous Liquid
Color, APHA	50
Odor	Slight, Typical
Specific Gravity, 25°C	0.908
Pounds per Gallon, 25°	7.5
Refractive Index, 25°C	1.4585
Molecular Weight (Average)	638
Cloud Point, °C	<-15
Acid Value, mg KOH/g	2.0
Free Acid Malic (Eq. Wt. 67), %	0.25
Saponification Value, mg KOH/g	1.65
Iodine Value	2.0
Flash Point, (COC), °C	

SOLUBILITY:

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

Partly Soluble in glycols.

Dispersible in triols and polyols.

Insoluble in water.

SUGGESTED APPLICATIONS:

Bernel Ester DISM is a fruit ester made from natural malic acid and highly branched malic acid and highly branched alcohol, which allows it to exhibit an extremely low freeze point. The presence of the free hydroxyl group on the malic acid facilitates spreadability on the skin and gives it emulsifiability in some polar solvents.

Bernel Ester DISM, an odorless, tasteless ester, imparts gloss, sheen and lubricity with a minimum of oiliness. It is recommended as a good binder for pigmented products and is an excellent additive for imparting gloss and sheen in make-ups and lip products.

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