



# Alzo International

## TECHNICAL BULLETIN

### DERMOL DIA

Chemical Name : Bis(1-Methylethyl) Hexanedioate  
INCI Name : Diisopropyl Adipate  
CA Index Name : Hexanedioic Acid, Bis(1-Methylethyl Ester)  
CAS Number : 6938-94-9  
EINECS Number : 230-072-0

#### TYPICAL PROPERTIES

Appearance, 25°C	Clear Colorless Liquid
Color, APHA	30
Odor	Faint, Characteristic
Specific Gravity, 25°C	0.960
Pounds per Gallon, 25°C	8.0
Refractive Index, 25°C	1.4225
Molecular Weight (Theoretical)	230
Freeze Point, °C	<-2.0
Acid Value, mg KOH/g	1.0
Free Acid as Adipic (Eq. Wt. 73), %	0.13
Saponification Value, mg KOH/g	485
Iodine Value	Nil
Flash Point, °C (COC)	Over 170
Required HLB	9.0

#### SOLUBILITY:

Soluble in alcohols, glycols, ketones, ester, silicones, aromatic, chlorinated and aliphatic hydrocarbons, including mineral and natural oils.

Insoluble in water, ethylene glycol and glycerol.

#### SUGGESTED APPLICATIONS:

**Dermol DIA** finds use in hydro-alcoholic cosmetic formulations because of its excellent compatibility in such systems. Typical end uses for **Dermol DIA** in hydro-alcohol products are pre-electric and after-shave lotions. It functions as a nonoily emollient lubricant with mild dry effects. **Dermol DIA** is also used in bath oils, frequently in combination with mineral oil and other esters such as Dermol IPM. Additionally, it is used in lipsticks, men's grooming aids, creams, hand lotions, suntan gels, colognes, toilet waters and skin fresheners.

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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