

# ALZO International Inc.

## TECHNICAL BULLETIN

### DERMOL IPP

Chemical Name: 1-Methylethyl Hexadecanoate  
INCI Name: Isopropyl Palmitate  
CA Index Name: Hexadecanoic Acid, 1- Methylethyl Ester  
CAS Number: 142-91-6  
EINECS Number: 203-571-1

#### SPECIFICATIONS:

|  |                      |
|--|----------------------|
| Appearance @ 25°C                                    | Clear Liquid         |
| Color, APHA  | 20 Max               |
| Odor   | Essentially Odorless |
| Specific Gravity @25 °C                              | 0.850                |
| Pounds per Gallon @ 25°C                             | 7.1                  |
| Refractive Index @ 25°C                              | 1.4355 – 1.4375      |
| Molecular Weight (Theoretical)                       | 298                  |
| Ester Content, %                                     | 99 Min               |
| Freeze Point, °C (Typical)                           | 13.0                 |
| Acid Value, mg KOH/gram                              | 1.0 Max              |
| Free Organic Acid as Palmitic<br>( Mol. Wt. 256.), % | 0.5 Max              |
| Saponification Value, mg KOH/gram                    | 182-192              |
| Iodine Value   | 1.0 Max              |
| Flash Point, °C (C.O.C.)                             | 160                  |
| Required HLB   | 11-12                |

SOLUBILITY: Soluble in most in most organic solvent such as esters, mineral oil, mineral spirits and aromatic hydrocarbons.  
Insoluble in water and some polyols like glycerol and glycol.

#### SUGGESTED APPLICATIONS:

**DERMOL IPP**, a nonoily ester with highly absorbent skin properties, is suitable for numerous applications in the cosmetic and toiletry industry as an emollient and film spreader in bath oils, hair preparations, suntan lotions and creams. **DERMOL IPP** is also used as a solvent and solubilizer for additives used in certain cosmetic preparations such as perfume resins, lipstick and make-up colors.

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