



Alzo International

TECHNICAL BULLETIN

TRIVENT PE-48



Chemical Name : Pentaerythritol Tetra 2-Ethylhexanoate
INCI Name : Pentaerythrityl Tetraethylhexanoate
CA Index Name : Hexanoic Acid, 2-Ethyl-2, 2-bis[[[(2-Ethyl-1-Oxohexyl) Oxy]Methyl]-1,3-Propanediyl Ester
CAS Number : 7299-99-2
EINECS Number : 230-743-8
Empirical Formula : C₃₇H₆₈O₈

TYPICAL PROPERTIES:

| | |
|---------------------------------------|---------------|
| Appearance, 25°C | Clear Liquid |
| Color, (Gardner) | <1 |
| Odor | Mild, Typical |
| Specific Gravity, 25°C | 0.960 |
| Pounds per Gallon, 25°C | 8.0 |
| Refractive Index, 25°C | 1.4510 |
| Molecular Weight (Theoretical) | 640 |
| Acid Value, mg KOH/g | 0.5 |
| Free Acid as Hexanoic (mol wt 116) | 0.1% |
| Saponification Value, mg KOH/g* | 350 |
| Iodine Value | 0 |
| Hydroxyl Value, mg KOH/g | 0 |
| Flash Point, °C (COC) | > 170 |

SUGGESTED APPLICATIONS:

Trivent Pe-48 is a relatively new emollient ester made from the complete reaction of Pentaerythritol and 2-Ethyl Hexanoic Acid. It has a high molecular weight and appears to leave a “wet” feel on the skin. This material is useful in creams, lotions, make-up and lip products. Its low odor, low taste and light color make it a desirable additive to most cosmetics.

*4-Hour Reflux

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