

## C13 ethoxy phosphate ester - free acid

### Description

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Lanphos PE36 is a powerful emulsifier that can be used across a wide range of polymer systems and more importantly is used as a primary emulsifier without the need for a secondary surfactant to stabilise the system. As a versatile emulsifier, this is the first choice for any formulator. As well as providing extremely small particle sizes it has an in-built stabiliser system to prevent re-agglomeration of polymer particles. Lanphos PE36 is supplied in the free acid form and is typically neutralised before use to produce the salt of choice for individual applications.

### Specification

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Appearance at 25°C:	Clear liquid
Acid value my KOH/g:	75 - 85
Nonionic content %:	<16
Water content %:	<1.0

### Typical Properties

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Composition:	C13 ethoxy phosphate ester - free acid
Odour:	Characteristic
Activity %:	100
pH 5% aqueous:	2.5
Specific gravity at 25°C:	1.05
Solubility in water at 20°C:	Dispersible
Pour point °C:	< 0°C

Typical properties are based on our own measurements and do not constitute part of the sales specification.

## Applications

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Lanphos PE36 is a phosphate ester manufactured using phosphorous pentoxide to give a product that contains both mono and di-esters. The main advantage of a phosphate ester over a conventional anionic is its excellent stability in a high concentration of acid, alkali and electrolyte. Lanphos PE36 is supplied in free acid form but when neutralised the product can be used in areas such as:

- Textiles as a lubrication aid and/or emulsifier
- Leather
- I & I
- Household
- Metalworking cutting fluids - especially when neutralised with TEA
- Agrochemicals
- Emulsion polymerisation and resin emulsification

## Packaging and Storage

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Lanphos PE36 can be supplied in bulk road tankers, IBC's and 200kg nett drums.

Stainless steel, polyethylene or glass lined equipment is necessary for the storage of Lanphos PE36 in order to prevent corrosion and subsequent contamination. This material can separate on standing and at low temperatures. May require agitation and warming prior to use.

## Regulatory Information

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Please refer to Safety Data Sheet.

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All information, recommendations and suggestions appearing in the literature concerning the use of the product are based upon tests and data believed to be reliable. However it is the users responsibility to determine the suitability for their own use of the products described here. For non English datasheets translation has been carried out using translation software, Lankem accepts no liability due to errors that occur during translation. Typical properties are based on our own measurements and do not constitute part of the sales specification.