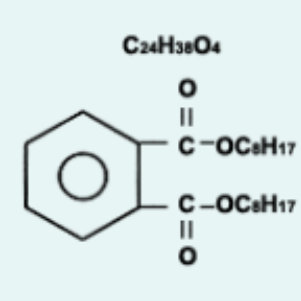
DOP(Di-Octyl-Phthalate, Di-2-EthylHexyl-Phthalate)

Phthalates esters, particularly dialkyl phthalates, have dominated plasticizer technology since the 1930s. For many years, bis(2-ethylhexyl) phthalates(DEHP or DOP) was the accepted industry standard for a general-purpose plasticizer for PVC and is a benchmark for comparison of other plasticizers.

Its all-around performance, eg, compatibility with the resin, efficiency in flexibilizing, low volatility, and resistance to extraction, are so good that it alone has accounted for a fourth of the total plasticizer production. DOP (Di-Octyl-Phthalate) is made of the alcohol 2-ethyl hexanol, which is normally manufactured by the dimerisation of butyraldehyde, the butyraldehyde itself being synthesised from propylene

1. Technical Description

CAS No.117-81-7



Molecular Formula	$C_{24}H_{38}O_4$
Molecular Weight	390.6
Appearance	colorless, oily, liquid
Viscosity	74 - 76 cPs(@ 20)

2. Applications

Standard plasticizer for PVC characterized by low volatility, heat resistance, Low-temperature resistance, water resistance, high gelation capacity and good electrical properties. Most widely used all-purpose plasticizer

- PVC applications
- Decorative film
- Coatings
- Hoses
- Floor tiles
- Sheet vinyl flooring

- Vinyl compounding
- Vinyl flooring
- Vinyl gloves
- Vinyl products
- Bottles

3. Specification

Item	Unit	Value	Test Method
Acid Value	mgKOH/g	0.03 MAX.	KSM 1974
Color	Pt/Co	30 MAX.	ASTM D1045 - 80
Density @20℃	g/㎤	0.986±0.003	ASTM D1045 - 80
Ester Content	wt%	99.8 MIN.	G/C
Water Content	wt%	0.03 MAX.	ASTM D1364 - 90

4. Packing

Bulk-delivery, Tank-truck, 200kg metal drum