

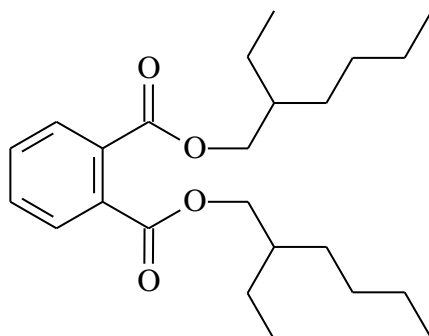
Formula : C<sub>24</sub>H<sub>38</sub>O<sub>4</sub>

Molecular Weight : 390.57

CAS Registry Number : 117-81-7

Abbreviation : DOP(Di octyl phthalate), DEHP(Di 2-ethylhexyl phthalate)

Molecular Structure :



Properties:

Property	Unit	Value	Test method
Dynamic viscosity(20 °C)	mPa·s	77 – 82	ASTM D445
Specific gravity	20 °C/20 °C	0.986±0.003	JIS K-6751
Colour	APHA	30 max	JIS K-6751
Refractive index	n <sub>D</sub> 25	1.485±0.003	JIS K-6751
Acid value	mg KOH/g	0.04 max	JIS K-6751
Purity	Area %	99.5 min	by gas chromatography
Volatility content	Weight %	0.1 max	JIS K-6751

Description:

DOP is a nearly colourless, clear and practically anhydrous oily liquid. It is soluble in the usual organic solvents like ethyl alcohol, acetone, toluene. DOP is almost insoluble in water. DOP is miscible and compatible with all of the monomeric plasticizers commonly used in PVC. So it can use mixed with the monomeric plasticizers in PVC formulation. DOP is a General Purpose plasticizer providing the desired flexibility to PVC along with an overall balance of optimum properties at the lowest cost.

## Storage

DOP has an almost unlimited shelf life when properly stored in closed containers at temperatures below 40 °C and the exclusion of humidity. Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

## Safety and Handling

The Hanwha Chemical Corporation provides its customers with a product specific Material Safety Data Sheet (MSDS) to cover potential health effects, safe handling, use and transportation. Hanwha Chemical Corporation strongly encourage its customers to review MSDS on its products and other materials prior to their use. DOP is normally supplied as a Liquid in 200kg Drum. DOP is not formulated to contain any hazardous or regulated materials such as lead, cadmium, mercury, and chromium compounds. And Hanwha Chemical corporation guarantee that DOP do not include any hazardous or regulated materials during the manufacturing process.

## Properties

Further information and recommendations for processing can be obtained from our technical support staff and representatives. The data and recommendations contained in this brochure represent the current state of our knowledge and serve as a guide only to our products and their potential applications. Therefore, no warranty of specific properties of the products mentioned herein or of their suitability or fitness for a particular purpose is implied. The information given in this brochure should be checked by preliminary trials because of conditions during processing over which we have no control.