

## DIOCTYL TEREPHTHALATE (DOTP)

### GENERAL DESCRIPTION:

DOTP is a slightly colored liquid, with a characteristic odor. The product is stable under normal storage and usage conditions, in tightly closed containers. It is used as a plasticizer of PVC and its applications in plastics industry as well as in paints and varnishes industry

Trade Name: DIOCTYL TEREPHTHALATE - DOTP, DEHT  
Chemical Name: bis(2-ethylhexyl) terephthalate  
Chemical Formula:  $C_6H_4(COOC_8H_{17})_2$   
CAS Number: 6422-86-2

### TECHNICAL QUALITY CONDITIONS:

Properties	Limits	Method
Appearance	Clear, Colourless Liquid	visual
Odour	Slight, Typical	
Isomers DOTP	Min. 99.5 %	ASTM D 3465
Water (Karl Fischer)	Max. 0,1 %	ASTM E 203
Acidity (Terephthalic acid )	Max. 0,03 %	ASTM D 1045
Density (20 °C)	0.980 - 0.985 g/cm <sup>3</sup>	areometer
Volatile matter content	Max. 0,2 %	at 150°C - 2 hours
Flash Point	Min. 230 °C	OPEN POT

### ADVANTAGES

- Does not cause chemical changes at polymers, but executes physical and mechanical changes.
- The product is flammable; it forms explosive mixture with air.
- Could perform in low temperature.
- Could be solved with general solvents.
- Could not be extracted with water.
- Could be mixed with all monomers at soften of PVC.
- It has a high electrical resistance.