

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 ³ | 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.