

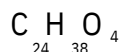
# Payflex T--80 (DOTP-Di-Octyl Terephthalate)



Technical Data Sheet

April 2015

Formula



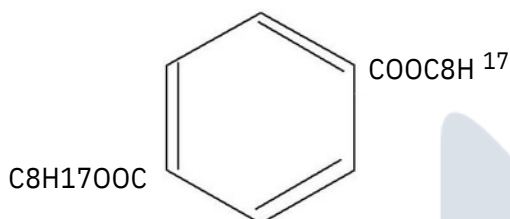
Molecular Weight

390

CAS Registry Number

6422 – 86 - 2

Molecular Structure



| Product Specifications                 | Value               | Test Method |
|----------------------------------------|---------------------|-------------|
| Specific gravity @ 27°C                | 0.980 – 0.986       | ASTM D-1045 |
| Ester Content ,%weight, minimum        | 99.50               | ASTM D-1045 |
| Volatile loss @130°C/3 hours, %weight  | 0.10                | PPTM        |
| Colour ,Pt-Co ,unit(HU) ,maximum       | 20                  | ASTM D-1045 |
| Plasticizing Ester ,% by GLC , minimum | 99.50               | ASTM D-1045 |
| Water , % by weight , maximum          | 0.10                | ASTM E-203  |
| Heat stability @ 180°C / 2 hours       | No change in colour | IS-9591-96  |
| Acidity as Acid % by mass ,maximum     | 0.01                | ASTM D-1045 |
| Ester Value ( mgKOH/gm )               | 287 ± 3             | ASTM D-1045 |
| Suspended matter                       | COLSFFM*            | Visual      |

\*Clear Oily Liquid Substantially Free Of Foreign Material

## Typical Physical Properties

|                                              |                     |
|----------------------------------------------|---------------------|
| Apparent Specific Gravity @ 25/25°C.....     | 0.9822              |
| Coefficient of expansion, @ 25°C per °C..... | 0.00075             |
| Solubility @ 25°C, in water, % by wt .....   | ≤ 0.01              |
| Boiling Point, °C.....                       | 400                 |
| Pour Point, °C .....                         | - 50                |
| Absolute Viscosity @ 20°C, cp.....           | 63                  |
| Refractive Index ND 27.....                  | 1.485               |
| Flash Point (COC) °C.....                    | > 210               |
| Odor.....                                    | Mild Characteristic |

\*The Properties value above are just for reference and not to be considered as guaranteed

Description

The outstanding performance characteristics and balance properties of Payflex T80 have made it the most widely used plasticizer in vinyl formulations. Payflex T80 is a primary plasticizer for soft PVC products.

Applications

Payflex T80 is a primary plasticizer for soft PVC products and is recommended to be used in high temperature cable & wire, Payflex T80 used in vinyl gloves, wall covering, vinyl flooring, carpet & novelties and synthetic rubber, Payflex T80 is used in a lot of European countries in application where human body is directly contact with material like toys. Nappy, medical material, artificial leather, water pipe. It has lower flexibility because of its structure and it decreases fragility.

Safety

Payflex T80 does not require special handling. Handle in accordance with good industrial hygiene and safety practices. Avoid eye contact by wearing personal protective equipment. Avoid repeated or prolonged skin contact. Avoid breathing vapors by providing adequate ventilation. Always refer to the

Material Safety Data Sheet (MSDS) for detailed information on safety

Packaging

Payflex T80 is available in bulk and drum packaging.

Storage & Handling

Payflex T80 has 24 month of shelf life when properly stored in closed containers and kept in cool, dry and ventilated area.