

## Payflex P--40

### (DIBP- Di-Iso-Butyl Phthalate)

#### Formula

C<sub>16</sub>H<sub>22</sub>O<sub>4</sub>

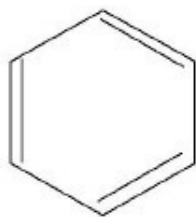
#### Molecular Weight

278

#### CAS Registry Number

84 – 69 - 5

#### Molecular Structure



COOC<sub>4</sub>H<sub>9</sub>

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| Product Specifications                 | Value               | Test Method      |
|----------------------------------------|---------------------|------------------|
| Specific gravity @ 27°C                | 1.030 – 1.040       | ASTM D-1045      |
| Ester Content ,%weight, minimum        | 99.50               | ASTM D-1045      |
| Volatile loss @110°C/2 hours, %weight  | 0.10                | PPTM ASTM D-1045 |
| Colour ,Pt-Co ,unit(HU) ,maximum       | 20                  | ASTM D-1045      |
| Plasticizing Ester ,% by GLC , minimum | 99.50               | ASTM E-203       |
| Water , % by weight , maximum          | 0.10                | IS-9591-96       |
| Heat stability @ 150C / 2 hours        | No change in colour |                  |
| Acidity as Acid % by mass ,maximum     | 0.01                | ASTM D-1045      |
| Ester Value ( mgKOH/gm )               | 403 ± 2             | ASTM D-1045      |
| Suspended matter                       | COLSFFM*            | Visual           |

\*Clear Oily Liquid Substantially Free Of Foreign Material

#### Typical Physical Properties

|                                              |                     |
|----------------------------------------------|---------------------|
| Apparent Specific Gravity @ 25/25°C.....     |                     |
| Coefficient of expansion, @ 25°C per °C..... | 1.0332              |
| Solubility @ 25°C, in water, (mg/l) .....    | 0.00075             |
|                                              | 11.2                |
| Boiling Point @ atm PR, °C.....              | 327                 |
| Pour Point, °C .....                         | - 46                |
| Absolute Viscosity @ 20°C, cp.....           | 34                  |
| Refractive Index ND 27.....                  | 1.4898              |
| Flash Point (COC) °C.....                    | 185                 |
| Odor.....                                    | Mild Characteristic |

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

#### Description

Payflex P40 (Di Iso Butyl Phthalate) is a colorless, odorless liquid commonly used as a solvent and plasticizer in the chemical industry. It is miscible with most organic solvents and insoluble in water. DIBP Plasticizer is used extensively in the adhesives industry to plasticize polyvinyl acetate (PVA) emulsions. The low viscosity and compatibility of Payflex P40 make this plasticizer ideally suited for PVA- based adhesives for bonding cellulosic materials.

#### Applications

Payflex P40 is an excellent solvent for many oil-soluble dyes, insecticides, peroxides, and other organic compounds. It is used as an antifoam agent and as a lubricant in textile manufacturing. It is also used in the coatings industry and in nail polish as a primary plasticizer for Nitrocellulose lacquers.

It is also used in Fragrance Fixative, Nail Care, Solvents & Vinyl Products.

#### Safety

Payflex P40 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.

#### Packaging

Payflex P40 is available in bulk and drum packing.

#### Storage & Handling

Payflex P40 has 24 months of shelf life when properly stored in closed containers.

**“We stretch ourselves to give you flexibility “**