

(NDBP- n-Di-Butyl Phthalate)

Technical Data Sheet

April 2015

Formula

$C_{16}H_{22}O_4$

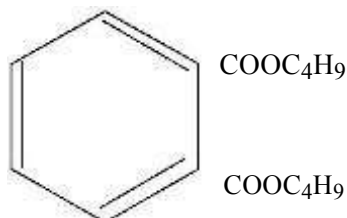
Molecular Weight

278

CAS Registry Number

84 – 74 - 2

Molecular Structure



Product Specifications	Value	Test Method
Specific gravity @ 27°C	1.040 – 1.050	ASTM D-1045
Ester Content ,%weight, minimum	99.50	ASTM D-1045
Volatile loss @110°C/2 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 @ 150°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)	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.....	1.0432
Coefficient of expansion, @ 25°C per °C.....	0.00075
Solubility @ 25°C, in water, (mg/ltr)	11.2
Boiling Point @ atm PR, °C.....	340
Pour Point, °C	- 46
Absolute Viscosity @ 20°C, cp.....	21
Refractive Index N_D 27.....	1.4898
Flash Point (COC) °C.....	185

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

Description

Payflex P400 (Normal di 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. DBP Plasticizer is used extensively in the adhesives industry to plasticize polyvinyl acetate (PVA) emulsions. The low viscosity and compatibility of Payflex P400 make this plasticizer ideally suited for PVA- based adhesives for bonding cellulosic materials.

Applications

Payflex P400 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 P400 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 P400 is available in bulk and drum packing.

Storage & Handling

Payflex P400 has 24 months of shelf life when properly stored in closed containers.