

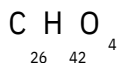
Payflex P--90

(DINP-Di-Iso-Nonyl Phthalate)

Technical Data Sheet

April 2015

Formula



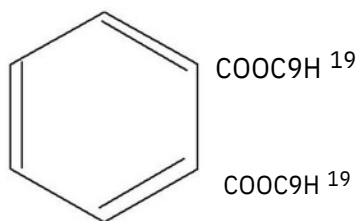
Molecular Weight

418

CAS Registry Number

28553 – 12 - 0

Molecular Structure



Product Specifications	Value	Test Method
Specific gravity @ 27°C	0.970 – 0.976	ASTM D-1045
Ester Content, %weight, minimum	99.50	ASTM D-1045
Volatile loss @130°C/3 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 @ 180°C / 2 hours	No change in colour	
Acidity as Acid % by mass, maximum	0.01	ASTM D-1045
Ester Value (mgKOH/gm)	267 ± 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.....	0.9723
Coefficient of expansion, @ 25°C per °C.....	0.00075
Solubility @ 25°C, in water, % by wt	<0.01
Boiling Point @ 3.5mmHg, °C.....	252
Pour Point, °C	- 45
Absolute Viscosity @ 20°C, cp.....	79
Refractive Index ND 27.....	1.485
Flash Point (COC) °C.....	224
Odor.....	Mild Characteristic

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

Description

Payflex P90 is a general purpose monomeric plasticizer suggested for applications that require lower volatility while maintaining good process ability.

When used as a plasticizer for vinyl products, Payflex P90 is a highly compatible, permanent plasticizer

with good resistance to extraction by oils, water and common cleaning products. Payflex P90 plasticized compounds can be formulated to have improved resistance to exterior environments

Payflex P90 is compatible with and may be used in compounds based on PVC and its copolymers, polyvinylidene chloride, urethane, chlorinated polyethylene, acrylic, nitrile and rubber compounds.

Applications

These properties are of importance to fabricators of sheet products, coated fabrics and a variety of extruded and molded parts such as tubing, gasketing, and construction applications. The good dielectric properties of Payflex P90 make it attractive for some insulation and jacketing applications. Payflex P90 is available prestabilized for this use. The product is excellent in low volatile and electric insulation and it is the best in viscosity stability in particular due to linear configuration comparing to other Phthalic acid plasticizer and so it is used for electric cables, sealant for automobiles, tarpaulin and synthetic leather. It is used in PVC films, Leather, Cables and Sheets etc.

Safety

Payflex P90 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 P90 is available in bulk and in drum packaging.

Storage & Handling

Payflex P90 has a shelf life of 24 months when properly stored in closed containers.

“We stretch ourselves to give you flexibility “