

Payflex P-91

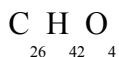
(Phthalate Plasticizer)



Technical Data Sheet

April 2015

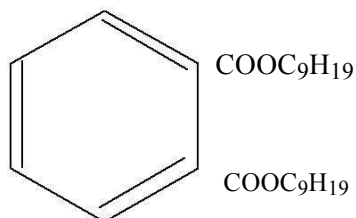
Formula



Molecular Weight

418

Molecular Structure



Product Specifications	Value	Test Method
Specific gravity @ 27°C	0.964 – 0.972	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)	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.....	0.968
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.....	52
Refractive Index N _D 27.....	1.483
Flash Point (COC) °C.....	240
Odor.....	Mild Characteristic

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

Description

PayflexP-91 is a high molecular weight ,low specific gravity phthalate ester predominantly based on C9 alcohols ,having outstanding cost performance characteristics and balance of properties of Payflex P91 have made it the suitable plasticizer in vinyl formulations. Payflex P91 is not only the major general purpose plasticizer in vinyl formulations, but also exhibits good compatibility with a broad spectrum of polymeric systems. Payflex P91 has good electrical properties and excellent heat and light stability. Its good solvating power for vinyl allows a broad tolerance for secondary plasticizers.

Applications

P-91 having almost similar properties of DINP characterized by low volatility, heat resistance. Low temperature resistance, High generation capacity and good electrical properties and good fusion behaviour. Most widely used all purpose plasticizer. Payflex 91 finds its major applications in Vinyl products , Bottle caps, and closures , Bottles, Coatings, Decorative film, fabric coatings, fishing lures, Flexible medical plastic, flexible medical , floor tile, Garden hoses, Hoses, Vinyl flooring, PVC applications, Sheet vinyl flooring, Vinyl compounding , Textile Industry, Upholstery, Vinyl gloves.

Safety

Payflex P91 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 P91 is available in bulk and drum packaging.

Storage & Handling

Payflex P91 has 24 month of shelf life when properly stored in closed containers and kept in cool,dry and ventilated area.