

Payflex P-10

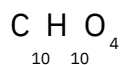
(DMP - Di Methyl Phthalate)



Technical Data Sheet

April 2015

Formula



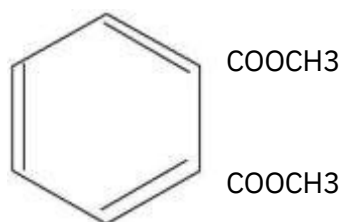
Molecular Weight

194

CAS Registry Number

131-11-3

Molecular Structure



Description

The outstanding cost performance characteristics and balance of properties of Payflex P10 have made it the most widely used as ectoparasiticide and has many other uses, including in solid rocket propellants, plastics, and insect repellents. Payflex P10 (DMP) is a phthalate ester, namely the dimethyl ester of phthalic acid.

Product Specifications	Value	Test
Specific gravity @ 27°C	1.180-1.190	Method
Ester Content ,%weight, minimum	99.50	ASTM D-1045
Volatile loss @110°C/1 hours, %weight	0.5	ASTM D-1045
Colour ,Pt-Co ,unit(HU) ,maximum	20	PPTM ASTM
Plasticizing Ester ,% by GLC , minimum	99.50	D-1045 ASTM
Moisture , % by weight , maximum	0.20	D-1045 ASTM
Heat stability @ 150°C / 2 hours(HU)	35	E-203
Acidity as Acid % by mass ,maximum	0.02	IS-9591-96
Ester Value (mgKOH/gm)	575 ± 3	ASTM D-1045
Suspended matter	COLSFFM*	ASTM D-1045
*Clear Oily Liquid Substantially Free Of Foreign Material		Visual

Typical Physical Properties

Boiling Point @ 6.7 mbar, °C.....	283
Absolute Viscosity @ 20°C, cp.....	16.9
Refractive Index ND 27.....	1.512
Flash Point (COC) °C.....	150
Odor.....	mild characteristic

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

Applications

Payflex P10 is used in the manufacturing of insect and mosquito repellent, as solvenrapic films and sheets, blister packaging and tape applications in formulation of organic peroxide. As a plasticizers in poly vinyl acetate and rubber. Dissolves with many natural resins, Glyceryl-phthalate resin and may be used with coumarone resins. As additive in polysulfides rubber to reduce shear strength and for easy mixing. Used in manufacturing of celluloid as solvent in nitrocellulose and cellulose acetate in varnishes/lacquers.

Safety

Payflex P10 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 P10 is available in bulk and drum Packaging.

Storage & Handling

Payflex P10 has 24 month of shelf life when properly stored in closed containers and kept in cool, dry and ventilated area.

“We stretch ourselves to give you flexibility “