

Payflex TM 80

(Tri Octyl Trimelitate)

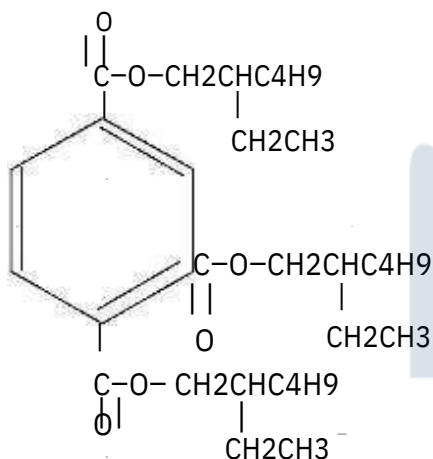


Formula
C33H54O6

Molecular Weight
546.9

CAS Registry Number
3319-31-1

Molecular Structure



Description

Payflex TM-80 is a primary branched

monomeric plasticizer for vinyl homopolymer and copolymer resins.

Payflex TM-80 is suggested for use in those end-use areas where extreme low volatility is required.

Payflex TM-80 provides desirable properties in vinyl applications which require good plasticizer/resin compatibility, low volatility, resistance to extraction by soapy water and good electrical properties. Payflex TM-80 is often a good substitute for polyester polymeric plasticizer where improvements in processing are desired.

Product Specifications	Value	Test Method
Specific gravity @ 27°C/27°C Ester Content, %weight, minimum	0.985 – 0.995 99.00	ASTM D-1045 ASTM D-1045
Volatile loss @130°C/3 hours, %weight	0.10	PPTM
Colour, Pt-Co, unit(HU), maximum	35	ASTM D-1045
Plasticizing Ester, % by GLC, minimum	99.00	ASTM D-1045
Moisture, % by weight, maximum	0.10	ASTM E-203
Heat stability @ 180°C / 2 hours (HU)	65	IS-9591-96
Acidity as Acid % by mass, maximum	0.03	ASTM D-1045
Ester Value (mgKOH/gm)	303-310	ASTM D-1045
Suspended matter	COLSFFM*	Visual
*Clear Oily Liquid Substantially Free Of Foreign Material		

Typical Physical Properties

Volume Resistivity - Ω-cm(ohm-cm).....	5.0±1.0 x 10 ¹¹
Apparent Specific Gravity @ 27/27°C.....	0.990
Boiling Point @ 7 mbar, °C.....	283
Pour Point, °C	- 46
Absolute Viscosity @ 20°C, cp	272-277
Refractive Index ND 27.....	1.485
Flash Point (COC) °C.....	250
Odor.....	Mild Characteristic

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

Applications

Payflex TM-80 plasticizers are the alternative for phthalate plasticizer when high temperature applications and low volatility are of importance. The end use products include oil resistance, gasoline hose, rail shoes, gasket, tubing for fatty foods and vehicle engine wires. Payflex TM-80 has unique migration properties and extraction resistance properties that gaskets, are required for dishwater medical tubing and photograph storage.

Payflex TM-80 is suitable for 90o C & 105 C wire insulation interior automotive applications (Instrument panel skins).

Safety

Payflex TM-80 does not require special handling. Handle in accordance with good industrial hygiene and safety practices. Avoid eye contact by wearing personal protective equipment. Avoid contact. Avoid breathing vapors by providing adequate ventilation.

Packaging

Payflex TM-80 is available in bulk and in drum packaging.

Storage & Handling

Payflex TM-80 has a shelf life of 24 months when properly stored in closed containers.