

April 2015

Formula

C₂₀H₃₆O₄

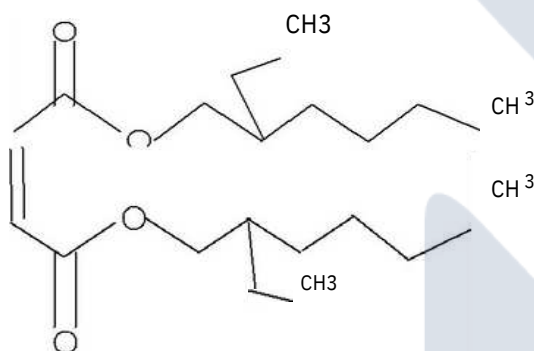
Molecular Weight

340

CAS Registry Number

142 - 16 - 5

Molecular Structure



Product Specifications	Value	Test Method
Specific Gravity @ 27°C/27°C	0.940 – 0.946	ASTM D-1045
Ester Content, % weight, Minimum	99	ASTM D-1045
Volatile loss @ 1300C/3hrs, % weight	0.20	PPTM
Acidity as Acid % by Mass, Maximum	0.02	ASTM D-1045
Water, % by weight, Maximum	0.10	ASTM E-203
Color, Pt-Co units (HU), Maximum	40	ASTM D-1045
Plasticizing ester % by GLC min	99	ASTM D-1045
Heat Stability @ 1800C/2hrs, HU	50	IS-9591-96
Ester Value (mgKOH/gm)	330±3	ASTM D-1045
Suspended Matter	OLSFFM*	Visual

*Clear Oily Liquid Substantially Free Of Foreign Material

Typical Physical Properties	
Apparent Specific Gravity @ 25/25°C.....	0.942
Coefficient of expansion, @ 20°C per °C.....	0.00075
Boiling Point @ 10mm Hg, °C.....	209
Pour Point, °C	- 85
Solubility @ 25°C, in water, % by wt	<0.01
Dynamic Viscosity @ 230C	17 MPAS
Kinematic Viscosity @ 25°C, cp.....	14.4
Refractive Index ND 27.....	1.454
Flash Point (COC)	182
Odor.....	Mild Characteristic

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

Description

Payflex M80 is an unsaturated reactive ester. It readily copolymerizes with vinyl acetate, vinyl c chloride, acrylates, and styrene. The size of the Payflex M80 molecule reduces crystallinity and provides permanent internal plasticization. PayflexM80 in copolymers improves the humidity and ultraviolet light performance of many resins. Payflex M80 is a colourless, low viscosity liquid and is shipped without inhibitor. Its high purity allows extended shelf life.

Applications

Payflex M80 finds wide usage in emulsion paint systems, paper and textile coatings, adhesives, oil additives and surfactants. Payflex M80 is a colourless liquid with mild odor. It is soluble in most organic solvents and compatible with most natural and synthetic resins. It is used as a co-monomer along with other monomers like vinyl acetate to give interesting adhesives and electrical properties. Copolymer of Payflex M80 with vinyl acetate, vinyl aldehyde styrene and acrylates provides special value in the field of low face coatings, free films, oil additives, Elastomers, paper coatings, pigment binders and adhesives. It is a raw material in the preparation of DI Octyl Sulfosuccinate (DOSS).

Safety

Payflex M80 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 M80 is available in bulk and drum packaging.

Storage & Handling

Payflex M80 has shelf life of 24 months when properly stored in closed containers.