

Technical Data Sheet

(DBM: - Di Butyl Maleate)

April 2015

Formula

C₁₂H₂₀O₄

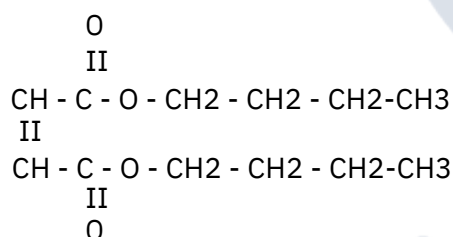
Molecular Weight

228

CAS Registry Number

105 – 76 - 0

Molecular Structure



Product Specifications	Value	Test Method
Specific Gravity @ 27°C/27°C	0.990 – 0.996	ASTM D-1045
Ester Content, % weight, Minimum	99	ASTM D-1045
Volatile loss @ 110°C/2hrs, % weight	0.2	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 @ 150°C/2hrs, HU	50	IS-9591-96
Ester Value (mgKOH/gm)	492±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.....	0.993
Coefficient of expansion, @ 20°C per °C.....	0.00075
Boiling Point @ 10mm Hg, °C.....	280
Pour Point, °C	– 50
Solubility @ 25°C, in water, % by wt	<0.3
Absolute Viscosity @ 200C, cp	7
Refractive Index ND 27	1.445
Flash Point (COC)	140
Odor.....	Mild Characteristic

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

Description

Payflex M40 used mainly as a co-monomer in copolymerization reactions with other monomers of the vinylic type such as PVC. It is also used in the manufacturing of plastisols, adhesives, additives and synthetic lubricants. The copolymers formed with vinyl acetate and the manufacturing of paints, giving them a higher flexibility, stability to water and ultraviolet light, besides a higher adherence.

Applications

Payflex M40 used as a plasticizer in water resistant films and as a co-monomer in vinyl and acrylic emulsion polymers. It is also used as an intermediate for pesticides and surfactants. As a co monomer Payflex M40 finds its application in adhesives, paint and textile processing industry.

Safety

Payflex M40 does not require special handling. Handle in accordance with good industrial hygiene and safety practices. Avoid eye contact by wearing personal equipment. Avoid repeated or prolonged skin contact. Avoid breathing vapors by providing adequate ventilation.

Packaging

Payflex M40 is available in bulk and drum packaging.

Storage & Handling

Payflex M40 has a shelf life of 24 months when properly stored in closed containers.