KLJ Group

Trust built on performance

DI OCTYL MALEATE (DOM)

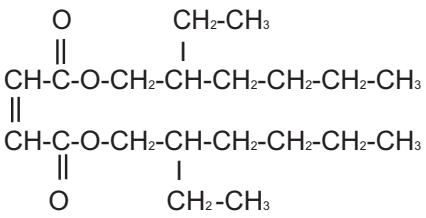
DI OCTYL MALEATE (DOM)

Internal plasticizer for PVA ,Styrene & Acrylates

Chemical Nature

Maleic acid ester of C_8 alcohol

Chemical Name	:-	DI (2-Ethylhexyl) Maleate
Trade Name	:-	DOM
Molecular Formula	:-	$C_{20}H_{36}O_4$
Molecular Weight	:-	340
Molecular Structure	:-	$C_8H_{17}OOCCH : CHCOOC_8H_{17}$



CAS Number	:-	142-16-5
UN. NO	:-	
EINECS NO	:-	205-524-5

Specification

Characteristics	Unit	Test Method	Value
Colour	HU	ASTM-D-1045-86	40 max.
Volatile Loss (130°C/3 Hrs)	wt.%	KLJTM	0.20max.
Ester Value	mg KOH/g	ASTM-D-1045-86	327-333
Acidity	wt%	ASTM-D-1045-86	0.020 max.
Moisture	wt.%	ASTM-E-203	0.10 max.
Specific Gravity (27°C)	-	ASTM-D-1045-86	0.940 0.946
Ester content	wt.%	ASTM-D-1045-86	99.00 min.
Heat Stability (180°C/2 Hrs)	HU	ISI-9591-96	50 HU.
Acidity after heat treatment	wt.%	ASTM-D-1045-86	0.04.
Plasticizing Esters by GC	% by area	KLJTM	99.00 min.

Typical Properties

Volume Resistivity	Ohmcm	KLJTM	NA.
Boiling Point @ 10 mmHG	°C	Lit	209.
Pour point	°C	Lit	-85.
Viscosity at 20°C	cp	KLJTM	19.5±1.5.
Refractive Index (27°C)	–	ASTM-D-1045-86	1.444-1.456.

Total Solution in Plasticizers

KLJ Group

Trust built on performance

DI OCTYL MALEATE (DOM)

Properties

DOM is clear, colourless oily liquid with characteristic " ester " odour. It is not miscible with water but soluble in organic solvents.

Application

DOM is an unsaturated reactive ester. It readily copolymerizes with vinyl acetate, vinyl chloride, acrylates ant styrene. The Size of the DOM molecule reduces crystallinity and provide permanent internal plasticization.

DOM finds wide usage in emulsion paint systems, paper and textile coating, adhesives, oil additives and surfactant.

DOM is a colourless, low viscosity liquid and is shipped without inhibitor. Its high purity allows extended shelf life.

Packing & Storage

DOM is packed in 200/225 kg iron drum / HDPE drum, 20 - 22 MT in Flexi tank / ISO tank / road tanker. It is stored in tightly closed container, in a cool, dry, ventilated area.

Shelf Life

Original characteristics remain intact for 12 months, if kept in recommended storage.

Safety

The MSDS can be provided on request.

Disclaimer

The data contained in this publication are based on our current knowledge and experience. During processing, there are so many factors which may affect the application part of DOM, so these data neither imply any guarantee of certain properties, nor the suitability of the product for the specific purpose. Any data given in this publication may change without prior information and do not constitute the agreed quality of our product.