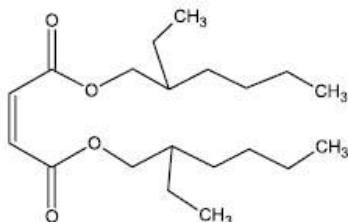


Formula
C₂₂H₃₆O₄

Molecular Weight
340

CAS registry number
142-16-5

Molecular Structure



Description

DOM is an unsaturated reactive ester. It readily copolymerizes with vinyl acetate, vinyl chloride, acrylates and styrene. The size of the Payal DOM molecule reduces crystallinity and provides permanent internal plasticization. Payal DOM in copolymers improves the humidity and ultraviolet light performance of many resins.

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

Product Specifications	Value	Test Method
Specific Gravity @ 25°/25°C	0.940 - 0.944	ASTM D-4052
Ester content, by weight (% minimum)	98,5	ASTM D-3465
Acid Number, mg KOH/gm (maximum)	0,1	ASTM D-1045
Water, by weight (% maximum)	0,1	ASTM E-1064
Color, APHA (maximum)	50	ASTM D-5386
Suspended matter	COLSFFM*	Visual

*Clear Oily Liquid Substantially Free of Foreign Material

Typical Physical Properties	
Apparent specific gravity @ 25°/25°C.....	0.942
Boiling point @ 10 mm Hg, °C.....	209
Pour point, °C.....	85
Kinematic viscosity @ 25°C, cP.....	14.4
Refractive index nD25.....	1.454
Flash point (COC), °C.....	182
Odour.....	Mild characteristic

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

Applications

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

DOM is a colorless 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 adhesive and electrical properties. Copolymer of DOM 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

Avoid eye contact by wearing personal protective equipment. Avoid repeated or prolonged skin contact. Avoid breathing vapors by providing adequate ventilation.

This data is based on technical Information available at the time of writing. However, they do not represent a specific guarantee on product performance and it is subject to change if required.