



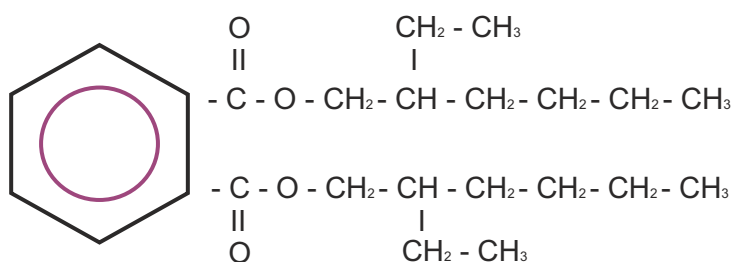
DI – OCTYL PHTHALATE (DOP SUPER)



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Primary plasticizer for PVC and PVC copolymers

Chemical Nature	Phthalic acid ester of C ₈ alcohol		
Chemical Name	:-	Bis (2-Ethylhexyl) Phthalate	
Trade Name	:-	DOP SUPER	
Molecular Formula	:-	C ₂₄ H ₃₈ O ₄	
Molecular Weight	:-	390	
Molecular Structure	:-	C ₄ H ₉ (C ₂ H ₅)C ₂ H ₃ -CO ₂ -C ₆ H ₄ -CO ₂ - C ₂ H ₉ (C ₂ H ₅)C ₄ H ₉	



CAS Number	:-	117-81-7
UN. NO	:-	3082
EINECS NO	:-	204-211-0

Specification	Characteritics	Unit	Test Emethod	Value
	Color	HU	ASTM-D-1045-86	15 max.
	Volatile Loss(130°C/3 Hrs)	wt. %	KLJTM	0.050 max.
	Ester Value	mg KOH/g	ASTM-D-1045-86	284-290.
	Acidity	wt. %	ASTM-D-1045-86	0.0033 max.
	Moisture	wt. %	ASTM-E-203	0.05 max.
	Specific Gravity(27°C)	-	ASTM-D-1045-86	0.980-0.986.
	Ester conyent	wt.	ASTM-D-1045-86	99.90 min.
	Heat Stebility(180°C/2 Hrs)	HU	ISI-9591-96	No Change.
	Acidity after heat treatment	wt. %	ASTM-D-1045-86	0.015.
	Plasticizing Ester by GC	% by area	KLJTM	99.90 min.
	Residual alcohol	% by area	KLJTM	0.030 max.

Typical Properties

Boiling Point @ 7 mbar	°C	lit.	231.
Viscosity at 20°C	cp	KLJTM	82±2.
Refractive Index (27°C)	-	ASTM-D-1045-86	1.484–1.488.

Total Solution in Plasticizers



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Properties

DOP Super is almost colourless and odourless oily liquid, free of foreign materials which is slightly soluble in water (0.285mg/L at 24° C) but soluble in alcohols, hexane etc. It is miscible and compatible with all the monomeric plasticizers of PVC compounding.

Application

DOP Super is used as a plasticizer in PVC resins for fabricating flexible vinyl products like:- vinyl upholstery, tablecloth, shower curtain, raincoats, shoes, garden hoses, swimming pool liners, polymeric coatings, cable coating, component of paper & paperboard, defoaming agents, surface lubricants, in order of importance.

The only significant non-plasticizer use for DOP is an replacement for polychlorinated biphenyls in dielectric fluid for electric capacitors.

The miscellaneous use for DOP Super are:- as a solvent in erasable ink, as an acaricide for use in orchards, as an inert ingredient in pesticides, as a vacuum pump oil, in detecting leaks in respirators.

Apart from above applications, DOP Super is more suitable for medical & food grade applications like:- Drinking water bottle, Toys, Disposable syringes and many medical appliances.

Packing & Storage

DOP super is packed in 200/225 kg iron drum / HDPE drum, 20 - 22 MT 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 24 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 DOP super, 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.

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