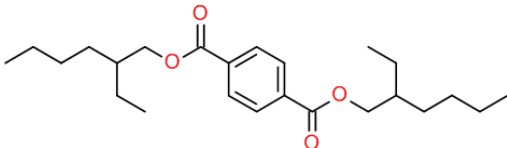


Technical Data Sheet (TDS)

ATICPLAS200® DOTP

DOTP is the ester of terephthalic acid and 2-ethylhexanol. It is a clear, colorless liquid, which is insoluble in water. Dioctyl terephthalate is a very important phthalate-free plasticizer for PVC, preferred over low-chain and ortho-phthalate plasticizers as it is considered a safer alternative due to its lower toxicity.

DOTP is compatible with both homopolymer and copolymer vinyl resins. It is used mainly to plasticize vinyl resin where good processing characteristics are needed, and the finished product requires low temperature flexibility and low volatility.

Chemical Nature	Bis(2-ethylhexyl) terephthalate
Formula	C ₂₄ H ₃₈ O ₄
Molecular Weight	390.6
CAS No.	6422-86-2
EC No.	229-176-9
Molecular Structure	

Properties	Value	Unit	Test Method
Appearance	Clear Colorless Liquid	-	
Ester Content (min)	99.5	% by weight	ASTM D3465
Color (max)	25	HAZEN	ASTM D1045-08 (D1209)
Water Content (max)	0.1	wt %	ASTM D1045-08 (E203)
Acid Value (max)	0.1	mg KOH/g	ASTM D1045-08
Flash Point (min)	190	°C	ASTM D93 (Closed Cup)
Specific Gravity @ 25°/25°C	0.975 - 0.985	-	ASTM D1045-08 (D287-D4052)
Refractive Index @ 25°C	1.484 - 1.490	-	ASTM D1045-08 (D1218)
Viscosity @ 25°C	60 - 65	cP	ASTM D2196



Applications

DOTP is a general purpose PVC plasticizer that can be used as a phthalate replacement and it's environmentally safer than most orthophthalate plasticizers.

DOTP is suitable for applications including film & sheet, calendaring, gaskets, O-rings, dip molding, rotational molding, slush molding, injection molding, automotive parts, coated fabrics, flooring, wall coverings, and wire & cable. Page | 2

Storage and Handling:

DOTP has an almost unlimited shelf life when it is properly stored in closed and dry containers with a temperature of less than 25 C°.

Packing

DOTP is available in bulk, tank truck, Flexitank or IBC tank.

Safety

DOTP requires handling with care and in accordance with good safety practices. Avoid eye contact by wearing protective equipment. If eye contact occurs, wash with flowing water.

Avoid skin contact. Avoid breathing vapors by providing adequate ventilation and wearing mask.

Always refer to the Material Safety Data Sheet ([MSDS](#)) for detailed information.

Contact Information

Atic Kimya
Demircilerosb Mah. Refik Baydur Cad. No:20/3
(GEBKİM OSB) Dilovası 41455 Kocaeli - Turkey

Technical Support
Tel: +90 262 502 06 18
Email: info@atickimya.com
Web: www.atickimya.com

