

PVC Plasticizer Catalogue



KHORRAM PLASTIC TEHRAN



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DOTP Plasticizer



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DOP Plasticizer



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ESBO Plasticizer



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DOA Plasticizer



Introducing **KHORRAM PLASTIC TEHRAN**



KHORRAM PLASTIC CO is one of the main producer of PVC granule products in Iran. During 50-year activity in the field, and employing experts' co-operation and consult, using the world modern technology and creating research and development units, quality control laboratory and also in business section have been able to approach unique product quality. The company based on pack of five-decade experiences and communicating with domestic and global polymer research center, have gone through long way so that it can provide the country's major industries-such as medical equipment, automotive, wire and cable, irrigation and building hose- with lower wastage, more economic and higher quality products. The company based on a pack of five-decade experience and communicating with domestic and global polymer research centers, have gone through long way so that it can provide the country's major industries-such as medical equipment, automotive, wire and cable, irrigation and building hose- with lower wastage, more economic and higher quality product.





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DOTP Plasticizer





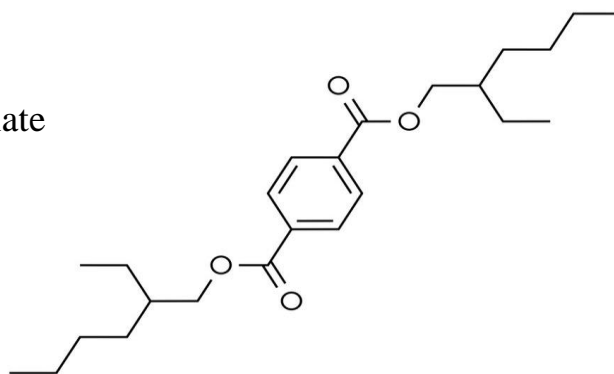
DOTP

DOTP stands for Dioctyl Terephthalate, which is a non-phthalate plasticizer that is commonly used as a substitute for phthalate plasticizers in various applications. It is a clear, colorless liquid that is highly stable and has good resistance to heat and weathering. DOTP is widely used in the production of PVC products, such as cables, wires, films, and flooring, as well as in other applications such as adhesives, coatings, and sealants. It is considered to be a safer alternative to phthalate plasticizers, as it has a lower toxicity and is not classified as a reproductive or developmental toxicant. DOTP is also known for its excellent plasticizing efficiency, low volatility, and good electrical properties.

Chemical Name: bis(2-ethylhexyl) terephthalate

CAS No:6422-86-2

Molecular Weight : 391 gr/mol



Properties	Standard	Unit	Value
Appearance	Internal Method	—	Transparent
color	ASTM-D-1045-86	HU	20 Max
Acidity	ASTM D-1045	KOH mg/g	0.02 Max
Amount of water	ASTM-E-203	wt. %	0.1 Max
Refractive index	ASTM-D-1045-86	—	1,444 – 1,450
Density	ASTM-D-1045-86	gr/cm ³	0.984-0.986
Melting point	Internal Method	°C	-45
Flash point	Internal Method	°C	230 MIN



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DOP Plasticizer





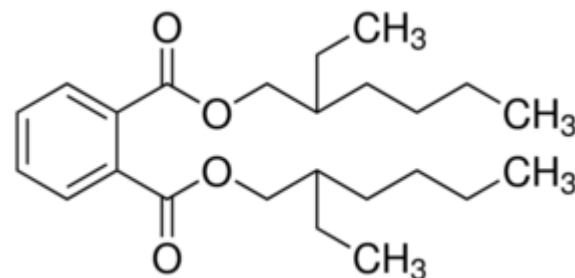
DOP

DOP stands for Dioctyl Phthalate, which is a type of plasticizer that is commonly used in the production of polyvinyl chloride (PVC) products. It is a clear, colorless liquid that is highly stable and has good resistance to heat and weathering. DOP is widely used in the production of PVC products, such as cables, wires, films, and flooring, as well as in other applications such as adhesives, coatings, and sealants. It is known for its excellent plasticizing efficiency, low volatility, and good electrical properties.

Chemical Name: bis(2-ethylhexyl) phthalate

CAS No:117-81-7

Molecular Weight : 390.56gr/mol



Properties	Standard	Unit	Value
Appearance	Internal Method	–	Transparent
color	ASTM-D-1045-86	HU	25-30max
Acidity	ASTM D-1045	KOH mg/g	0.03max
Amount of water	ASTM-E-203	wt. %	0.1
Refractive index	ASTM-D-1045-86	–	1.485
Density	ASTM-D-1045-86	gr/cm ³	0.984
Boiling point	Internal Method	°C	384
Melting point	Internal Method	°C	-59
Flash point	Internal Method	°C	206



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ESBO Plasticizer





ESBO

ESBO is Epoxidized Soybean Oil, also known as ESBO, is a pale-yellow clear liquid that is manufactured from soybean oil that has undergone epoxidation. It is compatible to use in a variety of materials including PVC, PVA, nitrocellulose and chlorinated rubber. It is non-toxic and environmentally friendly.

Applications: ESBO is an excellent co-plasticizer and secondary heat and light stabilizer in the production of PVC and its copolymers. It is used as an acid scavenger in the production of flexible PVC. Epoxidized Soybean Oil can be used as a pigment dispersing agent, chemical intermediate, lubricant, and in functional fluids, coatings and adhesives.

Properties	Standard	Unit	Value
Appearance	Internal Method	–	Transparent
color	Internal Method	-	Pale yellow clear liquid
Acidity	ASTM D-1045	KOH mg/g	0.7
Oxirane oxygen	ASTM-E-203	wt.%	6.6 ± 0.2
Density	ASTM-D-1045-86	gr/cm ³	0.993
odor	Internal Method	-	mild



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DOA Plasticizer





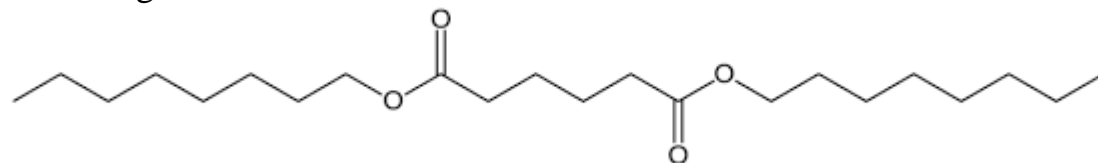
DOA

DOA is considered as another plasticizer oil in the production of soft PVC compounds. This oil belongs to the aliphatic family and is the result of the esterification process of 2-ethylhexanol alcohol and adipic acid, so it belongs to the family of non-phthalate plasticizers. DOA is a clear oily liquid with a long shelf life, insoluble in water, high cold resistance, low viscosity, and also by creating favorable physical and mechanical changes without changing the chemical structure in the polymer, it is used as one of the best plasticizers to replace DOP. can be Khorram Plastic Company is proud to have an important contribution to the domestic production of this product by acquiring the knowledge and technology to produce this oil and with an annual production capacity of 10,000 tons.

Chemical Name: bis(2-ethylhexyl) adipate

CAS No:103-23-1

Molecular Weight : 370.57gr/mol



Properties	Standard	Unit	Value
Appearance	Internal Method	–	Transparent
color	ASTM-D-1045-86	HU	15 Max
Acidity	ASTM D-1045	KOH mg/g	0.02 Max
Amount of water	ASTM-E-203	wt. %	0.05 Max
Refractive index	ASTM-D-1045-86	–	1,444 – 1,450
Density	ASTM-D-1045-86	gr/cm ³	0.923-0.927
Melting point	Internal Method	°C	-67
Flash point	Internal Method	°C	200