

DI (2-ETHYL-HEXYL) PHTHALATE

DI-OCTYL-PHTHALATE TECHNICAL GRADE

Last revision 2008

Chemical Name: Molecular formula: $C_{24}H_{38}O_4$
 No.CAS: 117-81-7
 Abbreviation: DOP

General Description:

Di-octyl-phthalate is a clear, slightly yellowish, viscous liquid, free of sediment, showing characteristic odor. It is a flammable product, with air gives explosive mixtures within 0.1-0.2% limits. The product is stable under normal storage and using conditions. Di-octyl-phthalate is incompatible with strong oxidizers.

Technical Quality Conditions:

Characteristics	MU	Limits		Test methods
		Type B	Type C	
Appearance	-	clear liquid	clear liquid	visual
Isomers content (Di-octyl-phthalate), min.	%	98.0	97.0	ASTM D 3465
Acidity (phthalic acid) , max.	%	0.08	0.08	ASTM D 1045
Color, max.	Hazen units	150	300	SR ISO 2211
Water (Karl-Fischer), max.	%	0.1	0.1	ASTM E 203
Volatile substances, max.	%	0.45	0.6	ILL 003/1-04-32

Specific Properties:

Density, g/cm^3	0.982
Boiling temperature, $^{\circ}C$	384
Ignition temperature, $^{\circ}C$	~200

The values of those characteristics are approximated, and are only for general information and are not part of the technical quality conditions.

Main Applications:

Di-octyl-phthalate is widely used as a plasticizer in plastics industry:

- PVC cables;
- wall covering and flooring;
- adhesives;
- synthetic and natural rubber;
- synthetic and natural resins, etc.



Shipping Information:

- stainless steel road and railway tanks, aluminum or strength plastic, closed and provided with air escapes;
- carbon steel tanks, closed with vents to avoid humidity;
- flexi tanks.
- carbon steel drums or sheet drums.

Storage:

Di-octyl-phthalate should be stored in carbon steel tanks under nitrogen blanket, protected against direct sunrays, moisture and heat. Also HDPE plastic barrels can be used to store this material if kept between 3 and 6 months.

Keep only in original, tightly closed containers, out of children's reach or any other unauthorized employees, in covered and dry storehouses, at temperature up to 35°C.

When empty, the containers may be hazardous since they retain product residues (vapors, liquid).

Safety Considerations:

Please refer to the product Material Safety Data Sheet (MSDS) offering customers help to better satisfy their particular handling, safety and disposal needs and those that may be required by locally applicable health and safety regulations.

Warning:

Avoid high temperature, ignition resources, strong oxidizers, bases, acids, nitrates.

Di-octyl-phthalate is a toxic product. Avoid inhalation and body contact.

Attention:

Information contained in this document is provided to the best of our knowledge and experience.

Please contact OLTCHIM to see if the document has been revised.

Important:

For a better suitability of the product for your particular purpose, tests are recommended prior product use. You are advised to make your own determination as to safety, appropriate manner of handling, storage, use and disposal. All the information contained in this product technical sheet is offered for your consideration, investigation and verification. The data is presented in good faith and is believed to be reliable. You should not consider the descriptions, information, data or design as a part of our terms and conditions of sale. We expressly disclaim responsibility or liability for any loss, damage or expense arising out of reliance on the information provided herein.