KLJ Group

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DI ETHYL PHTHALATE (DEP)

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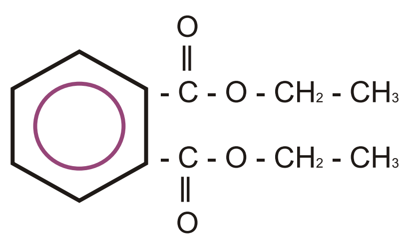
Solvent for Cosmetic industries & nitrocellulose.

Chemical Nature

Phthalic acid ester of Ethanol

Chemical Name	:-	Di Ethyl Phthalate
Trade Name	:-	DEP
Molecular Formula	:-	$C_{12}H_{14}O_4$
Molecular Weight	:-	222
Molecular Structure	:-	$C_6H_4(C00C_2H_5)_2$



CAS Number	:-	84-66-2
UN. NO	:-	3082
EINECS NO	:-	201-550-6

Specification

Characteristics	Unit	Test Method	Value
Colour	HU	ASTM-D-1045-86	20 max.
Volatile Loss (110°C/1Hrs)	wt.%	KLJTM	0.20 max.
Ester Value	mg KOH/g	ASTM-D-1045-86	500 – 506
Acidity	wt.%	ASTM-D-1045-86	0.015 max.
Moisture	wt.%	ASTM-E-203	0.20 max.
Specific Gravity (27°C)	-	ASTM-D-1045-86	1.114 –1.120.
Ester content	wt.%	ASTM-D-1045-86	99.50 min.
Heat Stability (150°C/2Hrs)	HU	ISI-9591-96	35 HU
Acidity after heat treatment	wt.%	ASTM-D-1045-86	0.05
Plasticizing Esters by GC	% by area	KLJTM	99.50 min.
Residual alcohol	% by area	KLJTM	0.020 max.

Typical Properties

Boiling Point	°C	lit.	298.
Viscosity at 20°C	cp	KLJTM	12 ± 2
Flash Point (COC)	°C	KLJTM	160
Refractive Index (27°C)	-	ASTM-D-1045-86	1.498 – 1.502

Properties

DEP is a colourless, transparent oily liquid , slight aromatic odour,

Total Solution in Plasticizers

Contact: plasticizer@kljindia.com An ISO 9001:2000 and ISO 14001:2004 conglomerate www.kljindia.com

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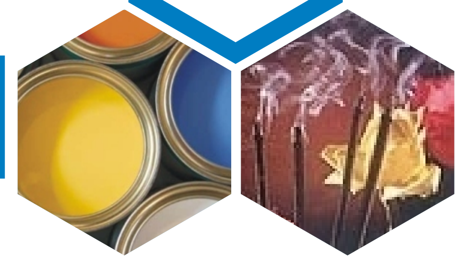

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Applicaiton

- As a solvent for nitro-cellulose and cellulose acetate in manufacturing of varnishes & paints.
- As fixative in **fragrance/perfumes** such as in aggarbatti.
- As **alcohol** denaturant.
- As a **camphor** substitute.

Packing & Storage

DEP is packed in 200/225 kg iron drum / HDPE drum, 20 - 22 MT in Flexi tank / ISO Tank / Road tanker. It is stored in tightly closed container, in a cool, dry & ventilated area. Isolate from incompatible substance.

Self 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 DEP, 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.