

KANATOL - 1001

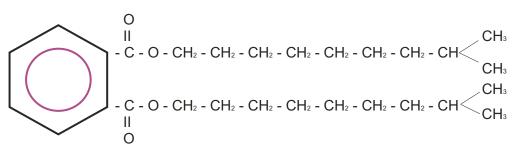
DI ISO DECYL PHTHALATE (DIDP) Primary plasticizer for PVC and PVC copolymers

Chemical Nature

Phthalic acid esters of C₁₀ alcohols.

Chemical Name :- Di Iso Decyl Phthalate.

Molecular Structure :- $C_6H_4(C00C_{10}H_{21})_2$



CAS Number :- 26761-40-0

UN. NO :-

EINECS NO :- 247-977-1

Specification Characteristics Unit Test Method	Value
Colour HU ASTM-D-1045-8	36 20 max.
Volatile Loss (130°C/3 Hrs) wt% KLJTM	0.10 max.
Ester Value mg KOH/g ASTM-D-1045-8	36 249–254.
Acidity wt% ASTM-D-1045-8	36 0.010 max.
Moisture wt% ASTM-E-203	0.10 max.
Specific Gravity (27°C) - ASTM-D-1045-8	36 0.960–0.967.
Ester content wt% ASTM-D-1045-8	36 99.50 min.
Heat Stability (180°C/2 Hrs) HU ISI-9591-96	No Change.
Acidity after heat treatment wt% ASTM-D-1045-8	36 0.03.
Plasticizing Esters by GC % by area KLJTM	99.50 min.
Residual alcohol % by area KLJTM	0.10 max.

Typical Properties

Volume Resistivity	Ohmcm	KLJTM	4.5±1.0X10 ¹¹ . 255.
Boiling Point @ 3.5mmHg	°C	lit.	255.
Pour point	°C	lit.	-48.
Viscosity at 20°C	ср	KLJTM	108 ± 2.
Flash Point (COC)	°C	KLJTM	232.
Refractive Index (27C)	_	ASTM-D-1045-86	1.483-1.486.

Total Solution in Plasticizers

Contact: plasticizer@kljindia.com

An ISO 9001:2000 and ISO 14001:2004 conglomerate

www. kljindia.com





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Properties DIDP is a clear, colourless, and odourless liquid, free of foreign materials. It is

soluble in most organic solvent and in soluble in water.

Application Around 95% of DIDP is used in PVC as a plasticizer. More than half of the

remaining 5% is used in the production of polymers other than PVC (e.g. rubbers). The remaining DIDP used in non-polymer application including anticorrosion

paints, anti-fouling paints, lacquers, inks, adhesives and sealants.

In wire and cable formulation DIDP finds wide use in 75°C THW building wire

compounds and in 80°C and 90°C appliance wire insulation.

In plastisol application, DIDP provide good initial viscosities and Excellent

viscosity stability.

Plasticizing Efficiency 1.10

Compatibility with Secondary Plasticizers

Very limited in comparision of DOP.

Packing & Storage DIDP 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.

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 TOTM, 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 donot constitute the

agreed quality of our product.

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