

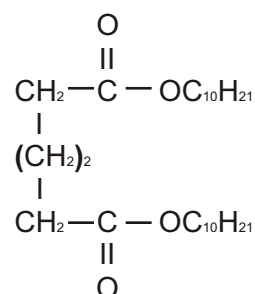
## DI ISO DECYL ADIPATE (DIDA)

### DI ISO DECYL ADIPATE (DIDA)

#### Primary plasticizer for PVC and PVC copolymers

#### Chemical Nature Adipic acid ester of C<sub>10</sub> alcohol

Chemical Name	:-	DI- ISO DECYL ADIPATE
Trade Name	:-	DIDA
Molecular Formula	:-	C <sub>26</sub> H <sub>50</sub> O <sub>4</sub>
Molecular Weight	:-	426
Molecular Structure	:-	(CH <sub>2</sub> ) <sub>4</sub> (COOC <sub>10</sub> H <sub>21</sub> ) <sub>2</sub>



CAS Number	:-	27178-16-01
UN. NO	:-	
EINECS NO	:-	248-299-9

Specification	Characteristics	Unit	Test Method	Value
	Colour	HU	ASTM-D-1045-86	40 max.
	Volatile Loss (130°C/3Hrs)	wt. %	KLJTM	0.1 max.
	Ester Value	mg KOH/g	ASTM-D-1045-86	260-265
	Acidity	wt. %	ASTM-D-1045-86	0.030 max.
	Moisture	wt. %	ASTM-E-203	0.10 max.
	Specific Gravity (27°C)		ASTM-D-1045-86	0.910 – 0.925
	Ester content wt. %		ASTM-D-1045-86	99.00 min.
	Heat Stability ( 180°C/2Hrs)	HU	ISI-9591-96	50 HU
	Acidity after heat treatment	wt. %	ASTM-D-1045-86	0.05
	Plasticizing Esters by GC	%by area	KLJTM	99.00 min.

#### Typical Properties

Volume Resistivity	Ohmcm	KLJTM	5±1 X 10 <sup>11</sup>
Boiling Point@ 5 mmHG	°C	lit.	239
Pour point	°C	lit.	-68
Viscosity at 20°C	cp	KLJTM	25-27
Flash Point (COC)	°C	KLJTM	235
Refractive Index (27°C)		ASTM-D-1045-86	1.445 – 1.460

Total Solution in Plasticizers



## DI ISO DECYL ADIPATE (DIDA)

### Properties

**DIDA** is clear oily liquid, free of foreign materials, DIDA is the highest molecular weight of our monomeric adipate ester series. It the adipate diester for low volatility and resistance to extraction by soap and detergent.

### Application

General purpose film, low viscosity plastisols and phthalate alternative.

#### Compatibility :-

- Cellulose acetate butyrate.
- Ethyl cellulose.
- Nitrocellulose
- Polychloroprene.
- Polyvinyl butyral.
- Polyvinyl chloride

### Plasticizing Efficiency 1.05

### Packing & Storage

**DIDA** is packed in 200/225 kg iron drum / HDPE drum, 20 - 22 fcl Flexi Tank or in road tanker. It is stored in tightly closed container, in a cool, dry & ventilated area.

### Shelf Life

It keeps the original characteristics minimum 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 **DIDA**, 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.