



## DI – METHYL ADIPATE (KANATOL-1A)

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#### Plasticizer for Nylon & Paint ingredients

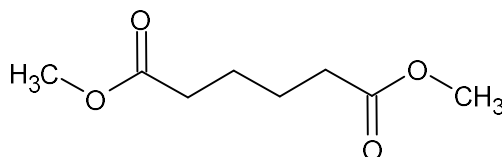
#### Chemical Nature

Methanol

Adipic acid ester of

Dimethyl adipate

Chemical Name	:	Kanatol-1A
Trade Name	:	C <sub>8</sub> H <sub>14</sub> O <sub>4</sub>
Molecular Formula	:	174.19
Molecular Weight	:	(CH <sub>2</sub> ) <sub>4</sub> (COOCH <sub>3</sub> ) <sub>2</sub>
Molecular Structure	:	



CAS Number	:	627 -93 - 0
UN. No	:	NA
EINECS No	:	211 -020 -6

#### Specification

#### Characteristics

#### Unit

#### Test Method

#### Value

Colour	HU	ASTM-D-1045-08	Max. 20
Volatile Loss (110°C/ 1h)	wt. %	KLJTM	Max. 0.3
Ester Value	mg KOH/g	ASTM-D-1045-08	632 - 644
Acid value	wt. %	ASTM-D-1045-08	Max. 0.50
Moisture	wt. %	ASTM-E-203-08	Max. 0.03
Specific Gravity (20°C)	-	ASTM-D-1045-08	1.062 – 1.067
Ester content	wt. %	ASTM-D-1045-86	Min. 99.00
Heat Stability (150°C/ 2 h)	HU	ISI-9591-96-13	Max. 30
Acidity after heat treatment	wt. %	ASTM-D-1045-08	Max. 0.04
Plasticizing Esters by GC	area %	KLJTM	Min. 99.00
Residual alcohol	area %	KLJTM	Max. 0.05

#### Typical Properties

Boiling Point	°C	Lit	227
Pour point	°C	Lit.	8 -9
Viscosity at 25°C	cp	KLJTM	2.5 ± 0.5
Refractive Index (25°C)	-	ASTM-D-1045-86	1.422-1.432

Total Solution in Plasticizers

# KLJ Group

Trust built on performance



## DI – METHYL ADIPATE (KANATOL-1A)

### Properties

**K-1A** is almost colorless oily liquid, having characteristic smell, free of foreign materials. Does not dissolve in water, dissolves in organic solvents.

### Application

**K-1A** acts as a **Plasticizer** in production of **Nylon** which gives the skin a soft and smooth appearance. Its solvent properties allow its use as a carrier for other ingredients and also to soften synthetic compounds by reducing brittleness and cracking.

**K-1A** finds widely used as a non-oily solvent in paint industries, Stripping industries and Resins industries with rapid absorbency and low residual tack.

**K-1A** is used as a Pigment dispersant in Varnish & paint industries and also use as key ingredient in Agrochemicals formulation.

### Plasticizing Efficiency

NA

### Packing & Storage

**K-1A** is packed in 220/210 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 12 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 **K-1A**, 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.

[Total Solution in Plasticizers](#)