

## DI ETHYL MALEATE (DEM)

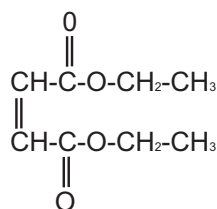
### DI ETHYL MALEATE (DEM)

Plasticizer for Surfactants

#### Chemical Nature

**Maleic acid ester of Ethanol**

Chemical Name	:-	DI Ethyl Maleate
Trade Name	:-	DEM
Molecular Formula	:-	C <sub>8</sub> H <sub>12</sub> O <sub>4</sub>
Molecular Weight	:-	172
Molecular Structure	:-	C <sub>2</sub> H <sub>5</sub> OOCCH : CHCOOC <sub>2</sub> H <sub>5</sub>



CAS Number	:-	141-05-9
UN. NO	:-	
EINECS NO	:-	205-451-9

#### Specification

##### Characteristics

Characteristics	Unit	Test Method	Value
Colour	HU	ASTM-D-1045-86	40 max.
Volatile Loss (110°C/1Hrs)	wt. %	KLJTM	1.0max.
Ester Value	mg KOH/g	ASTM-D-1045-86	649-655
Acidity	wt. %	ASTM-D-1045-86	0.030 max.
Moisture	wt. %	ASTM-E-203	0.20 max.
Specific Gravity (27°C)	-	ASTM-D-1045-86	1.057 – 1.063
Ester content	wt. %	ASTM-D-1045-86	99.00min.
Heat Stability (150°C/2Hrs)	HU	ISI-9591-96	50 HU
Plasticizing Esters by GC	%by area	KLJTM	99.00min.

##### Typical Properties

Boiling Point @	°C	lit.	225
Flash Point (CC)	°C	KLJTM	93.33
Refractive Index (27°C)	--	ASTM-D-1045-86	1.433 – 1.443

#### Properties

DEM is clear ,light yellow transparent liquid with a sweet characteristic odour miscible in alcohol & hexane , insoluble in water.

Total Solution in Plasticizers

# KLJ Group

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## DI ETHYL MALEATE (DEM)

### Application

**Manufacture of surfactants. & Insecticides ,Pesticides.**

### Packing & Storage

DEM 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

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 DEM, 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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