



## DI METHYL PHTHALATE (DMP)

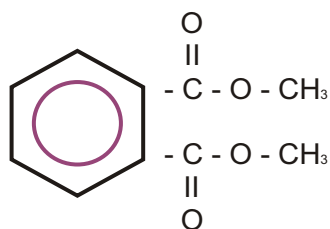
### DI METHYL PHTHALATE (DMP)

Primary plasticizer for Polyvinyl Acetate and Rubber

#### Chemical Nature

Phthalic acid ester of Methanol

Chemical Name	:-	Di Methyl Phthalate
Trade Name	:-	DMP
Molecular Formula	:-	C <sub>10</sub> H <sub>10</sub> O <sub>4</sub>
Molecular Weight	:-	194
Molecular Structure	:-	C <sub>6</sub> H <sub>4</sub> (COOCH <sub>3</sub> ) <sub>2</sub>



CAS Number	:-	131-11-3
UN. NO	:-	3082
EINECS NO	:-	205-011-6

#### Specification

#### Characteristics

Colour	HU
Volatile Loss (110°C/1Hrs)	wt. %
Ester Value	mg KOH/g
Acidity	wt. %
Moisture	wt. %
Specific Gravity (27°C)	-
Ester content	wt. %
Heat Stability (150°C/2Hrs)	HU
Acidity after heat treatment	wt. %
Plasticizing Esters by GC	%by area
Residual alcohol	%by area

#### Unit

#### Test Method

#### Value

ASTM-D-1045-86	20 max.
KLJTM	0.50 max.
ASTM-D-1045-86	572 – 578
ASTM-D-1045-86	0.015 max.
ASTM-E-203	0.20 max.
ASTM-D-1045-86	1.180 – 1.190
ASTM-D-1045-86	99.50 min.
ISI-9591-96	35 HU
ASTM-D-1045-86	0.05
KLJTM	99.50 min.
KLJTM	0.020 max.

#### Typical Properties

Boiling Point	°C	lit.	282
Viscosity at 20°C	cp	KLJTM	17.1
Flash Point (COC)	°C	KLJTM	149
Refractive Index (27°C)	--	ASTM-D-1045-86	1.508 – 1.516

#### Total Solution in Plasticizers



## DI METHYL PHTHALATE (DMP)

### Properties

DMP is a colourless, light-fast, clear oily liquid, slight sweet odour, soluble in all organic solvents .

### Application

- Cellulose acetate composition and compatible, in all proportions.
- DMP plasticizers poly vinyl acetate and rubber.
- Dissolves many natural resins, Glyceryl-phthalate resin and may be used with Coumarone resins.
- As additive in polysulfide rubber to reduce shear strength & for easy mixing.
- Used in manufacturing of **celluloid**.
- As solvent in nitrocellulose and cellulose acetate in **varnishes/lacquers**.
- As Solvenraphic films and sheets, blister packaging and tape applications. t in formulations of **organic peroxide**.

### Packing & Storage

DMP 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, (< 25°C) dry, shaded ventilated area. Isolate from incompatible substance.

### 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 DMP, 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.

Total Solution in Plasticizers