



## KANATOL - 400 (M)

## DI BUTYL PHTHALATE (M)

Primary plasticizer for PVC and PVC copolymers

**Chemical Nature** Phthalic acid ester of Butanols mixture  
 Chemical name :- DI Butyl Phthalate  
 Trade Name :- DBP(M)  
 Molecular Formula :-  $C_{16}H_{22}O_4$   
 Molecular weight :- 278  
 Molecular Structure :-  $C_6H_4(CO_2C_4H_9)_2$

Specification	Characteristics	Unit	Test Method	Value
	Colour	HU	ASTM-D-1045-86	20 max.
	Volatile Loss (110°C/ 2Hrs)	wt.%	KLJTM	0.10 max.
	Ester Value	mg KOH/g	ASTM-D-1045-86	376-394
	Moisture	wt..%	ASTM-E-203	0.10 max.
	Acidity	wt..%	ASTM-D-1045-86	0.01 max.
	Specific Gravity (27°C)	-	ASTM-D-1045-86	1.030-1.041.
	Ester content	wt..%	ASTM-D-1045-86	99.50 min.
	Heat Stability (150°C/ 2Hrs)	HU	ISI-9591-96	No Change
	Acidity after heat treatment	wt.%	ASTM-D-1045-86	0.03.
	Plasticizing Esters by GC	%by area	KLJTM	99.50 min.
	Residual alcohol	%by area	KLJTM	0.05 max..

### Typical properties

Boiling Point	°C	-	346 ± 3.
Viscosity at 20°C	cp	KLJTM	23 ± 2.
Flash Point	°C	KLJTM	189.
Refractive Index (27°C)	--	ASTM-D-1045-86	1.489-1.495.

Total Solution in Plasticizers

# KLJ Group

Trust built on performance



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### Properties

DBP(m) is almost colourless, odourless or slight aromatic, ester odour oily liquid, free of foreign materials in soluble in water but miscible in organic solvents.

### Application

It is an excellent low cost plasticizer for cellulose nitrate

It resembles DBP but has a lower specific gravity and lower freezing point.

DBP(m) is used effectively in protective coatings based on cellulose acetate, ethyl cellulose & vinyl polymers etc.

### Plasticizing Efficiency

0.86

### Compatibility with Secondary Plasticizers

Good in comparison of DIBP.

### Packing & Storage

DBP(m) 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 DBP(m), 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.

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