

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 ₆ H ₄ (CO ₂ C ₄ H 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.

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

Plasticizing Efficiency 0.86

COMPATIBILITY WITH SECONDARY PLASTICIZERS

Good in comparison of DIBP.

PACKING & STORAGE

DBP is packed in 200/225 kg iron drum / HDPE drum. 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.

Quality Assurance

AMBICA SPECIALITY CHEMICALS is a firm of Assessed Capability. The company's quality system conforms to ISO 9001:2015.

Health & Safety

Di Butyl Phthalate is no-toxic and non-flammable. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs wash thoroughly with clean water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. Full health and safety data are given in Product Safety Data Sheet.