

DI – n-BUTYL PHTHALATE (DnBP)

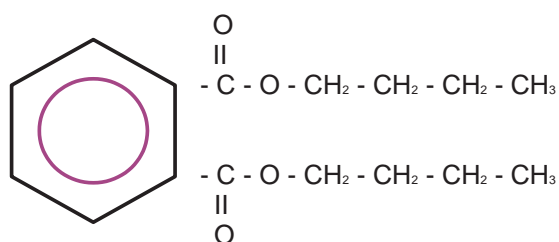
DI-n-BUTYL PHTHALATE (DnBP)

Primary plasticizer for PVC and PVC copolymers

Chemical Nature

Phthalic acid ester of Normal butyl alcohol

Chemical Name	:-	DI-n-Butyl Phthalate
Trade Name	:-	DNBP
Molecular Formula	:-	C ₁₆ H ₂₂ O ₄
Molecular Weight	:-	278
Molecular Structure	:-	C ₆ H ₄ (CO ₂ C ₄ H ₉) ₂



CAS Number	:-	84-74-2
UN. NO	:-	3082
EINECS NO	:-	201-557-4

Specification

Characteristics

Colour	HU
Volatile Loss (110°C/2Hrs)	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	0.10max.
ASTM-D-1045-86	401-405
ASTM-D-1045-86	0.010 max.
ASTM-E-203	0.10 max.
ASTM-D-1045-86	1.041 – 1.045
ASTM-D-1045-86	99.50min.
ISI-9591-96	No Change
ASTM-D-1045-86	0.03
KLJTM	99.50min.
KLJTM	0.05 max..

Typical Properties

Boiling Point @ 1.013 hpa	°C	lit. lit.	340
Pour point	°C	KLJTM	- 69
Viscosity at 20°C	cp	KLJTM	21 ± 2
Flash Point	°C	ASTM-D-1045-86	168
Refractive Index (27°C)	--		1.490 – 1.492



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Properties

DBP is almost colourless, odourless or slight aromatic, ester odour oily liquid, free of foreign materials .

Application

Plasticization of vinyl resins and other kinds of polymers in production of cable flexible PVC, artificial leather, rubber products, polymeric building materials, linoleum, film and sheet /plate materials, packing films, PVC gaskets etc.

Used primarily as a plasticizer for nitrocellulose, polyvinyl acetate and polyvinyl Chloride.

Used in platisol formulation for carpet back coating and other vinyl compounds in the manufacture of various paints, varnishes and lacquers, medical supplies ,safety glass for automobiles, cosmetics, such as nail polishes and paper coating, textile lubricant agent, insect repellent for impregnation of clothing, concrete additive, solvent for perfume oils, perfume fixative, stabilizer in rocket propellants , in adhesive, in printing inks, footwear, Hose pipes

Packing & Storage

DnBP 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, dry, ventilated area.

Shelf Life

Original characteristics remain intact 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 DnBP, 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.