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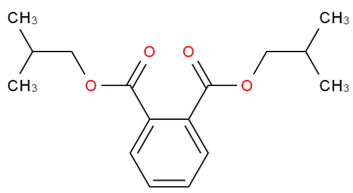
— TECHNICAL DATA SHEET —

MIRAIPLAST - 400 ISO

CHEMICAL NAME - Di-isobutyl phthalate (DIBP)
CAS No. - 84-69-5
MOLECULAR WEIGHT - 278
MOLECULAR FORMULA - $C_{18}H_{22}O_4$
MOLECULAR STRUCTURE



PRODUCT SPECIFICATIONS:	VALUE:	TEST METHOD:
PHYSICAL STATE	CLEAR LIQUID	VISUAL
COLOR (Pt-Co)	<30	DIN EN ISO-6271
DENSITY @ 20°C g/cm^3	1.037-1.041	DIN 51757
ESTER CONTENT % AREA	99.5 min	GC
WATER CONTENT % BY WEIGHT	0.1 max	DIN – 51777 PART-I
ACID VALUE (mg KOH/g)	0.1 max	DIN EN ISO-2114
POUR POINT °C	-42	DIN-ISO-3016
REFRACTIVE INDEX (n^D_{20})	1.488-1.491	DIN-51423

TYPICAL PHYSICAL PROPERTIES:	VALUE
FLASH POINT °C	174
BOILING POINT °C	327

DESCRIPTION:
Miraiplast-400I (DIBP) is a monomeric plasticizer produced by reacting phthalic anhydride and iso-butanol in presence of suitable catalyst.

APPLICATION:
While particularly strong solvator, but suffer from excessively high volatility. Substitution factor is 0.92. In spite of high volatility, it is being used widely. The high volatility is reflected in excessive fuming under vinyl processing condition and significant stiffening of flexible vinyl after only a short time period.
Other applications are as follows:

1. Excellent low cost plasticizers for cellulose nitrate.
2. Used effectively in protective coating based on cellulose acetate, ethyl cellulose, vinyl polymers, etc.
3. Effective plasticizer for polyvinyl acetate emulsion paints.

SAFETY:
Use protective equipment like masks, glasses, and gloves. Use mask to avoid fumes inhaling, also avoid skin contact. Handle in accordance with good industrial hygiene and safety practice while working with DIBP.

SHELF LIFE:
If properly stored in recommended condition, original characteristic unchanged for 24 months.

PACKAGING:
DIBP is packed in 220kg iron and plastic drums and tanker load.

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