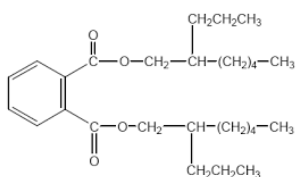


— TECHNICAL DATA SHEET —

MIRAIPLAST – 1000

CHEMICAL NAME	- Bis-(2-Propylheptyl) Phthalate (DPHP)
CAS No.	- 53306-54-0
MOLECULAR WEIGHT	- 447
MOLECULAR FORMULA	- C ₂₈ H ₄₆ O ₄
MOLECULAR STRUCTURE	



PRODUCT SPECIFICATIONS:

PHYSICAL STATE	VALUE: CLEAR OILY LIQUID	TEST METHOD: AVISUAL
SPECIFIC GRAVITY (25°/25 °C)	0.957-0.965	ASTM-D-4052
ESTER CONTENT % BY WEIGHT	99.5 min	ASTM-D-3465
ACID NUMBER (mg KOH/g)	0.07 max	ASTM-D-1045
MOISTURE % BY WEIGHT	0.10 max	ASTM-E-203
COLOR (APHA)	25 max	ASTM-D-5386
FOREIGN SUSPENDED PARTICLE	CLEAR	VISUAL
REFRACTIVE INDEX (n _{D20})	1.482-1.485	DIN-51423

TYPICAL PHYSICAL PROPERTIES:

SOLUBILITY @ 25 °C in water (mg/L)	VALUE < 0.01
FLASH POINT, COC (°C)	232
ODOUR	MILD CHARACTERISTICS

DESCRIPTION:

Miraiplast-1000 (DPHP) is produced by interacting phthalic anhydride with 2-Propylheptyl alcohol in presence of suitable catalyst. Presence of C-10 alcohol, volatile loss is less as compared to C-8 & C-9 alcohol.

APPLICATION:

Due to low volatile loss in the flexible products it passes fog control in automobile interior PVC products like artificial leather cloth, door pads, sun visors, etc. and also have better low temperature properties. DPHP has mild characteristic odour hence passes odour test also. Not recommended for REACH & GADS compliance products.

SHELF LIFE:

If properly stored in closed containers and recommended condition, it has unlimited shelf life.

STORAGE & HANDLING:

Miraiplast-800 TP has an almost unlimited shelf life when properly stored in close container and recommended condition.

SAFETY:

Miraiplast-1000 has low order of toxicity and does not require special handling. Avoid eye and skin contact by wearing personal protective equipment.

PACKAGING:

Miraiplast-1000 is available in bulk, drum packing 200kg and tanker.