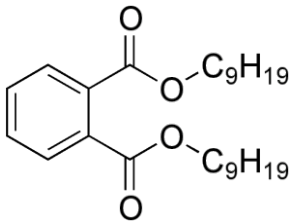
OMNE
CHEMICALS

Omne DINP

CHEMICAL TYPE	**PHTHALATE**
FORMULA	**$C_{26}H_{42}O_4$**
CAS NUMBER	**28553-12-0**
DIN 7723	**DINP**

MOLECULAR STRUCTURE



GENERAL DESCRIPTION

Omne DINP is a phthalic acid ester manufactured from isononanol. This versatile low-viscosity plasticizer is generally used in poly (vinyl chloride) PVC resins.

APPLICATIONS

OMNE DINP is a plasticizer generally used in poly (vinyl chloride) PVC resins.

OMNE DINP exhibits low initial viscosity when forming plastisols and good storage stability as evidenced by negligible viscosity changes.

OMNE DINP exhibits high retention and remarkable resistance to extraction in the presence of oil and soap/water systems. Also, it provides a good low temperature performance and low volatility. Preferred applications of

OMNE DINP include vinyl tile, resilient flooring, PVC backed carpeting, hoses, wall paper and vinyl siding cap stock. Household applications are mainly focused on furniture, table cloths and blanket storage bags.

OMNE DINP is highly recommended for manufacturing wire and cables for operation at mild temperatures.

PROPERTIES

PROPERTY	VALUE	TEST METHOD
Visual Appearance	Clear liquid	Visual
Ester content (%)	99.6 Min.	M-TCC-652
Color (Pt-Co)	25 Max	M-TCC-873
Acid Value (mgKOH/g)	0.07 Max	M-TCC-654
Water Content (%)	0.1 Max	M-TCC-848
Specific gravity @ 25 C	0.969-0.975	M-TCC-855

PHYSICAL DATA

Molar mass	418.6
Refractive Index at 20 ^{0}C	1.484-1.489
Flash Point, C.O.C. (^{0}C)	221^{0}C
Viscosity (cps)	
@25^{0}C	45.3
@35^{0}C	27.7
@45^{0}C	19
Solubility in water at 25 ^{0}C (g/L)	<0.00001(25 ^{0}C)
Solubility	Soluble in most organic solvents