

## DOP (Di Octyl Phthalate )

### Description/Applications

It is the most used plasticizer, usually considered one of the best for plasticizing PVC and many other resins. It is used in almost all transformation processes such as calendaring, spreading, extrusion, injection, rotomoulding, due to its properties of high efficiency and stability, low volatility, excellent dielectric properties, resistance to heat and ultra violet light and low solubility in water. It is compatible with most of the synthetic resins, including polymers, vinylic copolymers, cellulosic esters, natural and synthetic rubbers. It is not compatible with acetate and butirate of cellulose, melamine, shellac and epoxi resins. Due to its characteristics, its application is useful for goods that need great flexibility, durability, resistance to bad weather, and excellent dielectric properties. Among its main applications, we highlight hoses and plastic sections, dyes, varnishes, vinylic floors, adhesives, shoes soles, cars and furniture stuffing, electric wires and cables cover, and food packaging.

Specifications	Unit	Values
Ester content	% CG	99.4 min.
DOP content (DOP+DIOP)	% CG	99.0 min
Color	Pt / Co	30 max.
Free Acidity	mg KOH / g	0.07 max.
Water	% Weight	0.10 max.

- This product is guaranteed since it is stored and packaged as described below.

Physical Properties	Unit	Values
Chemical formula		$C_{24}H_{38}O_4$
Molecular weight		390
Density , (20/4 °C)		0.980 – 0.986
Refractive index, 25 °C		$1.484 \pm 0.002$
Flash point	°C	216
Viscosity, 25 °C	cP	57
Boiling point	°C	370
Physical state		Liquid

- The properties' values above are just for reference, and not to be considered as guaranteed parameters.

### PACKAGING :

**Bulk** : in stainless steel tank cars.

**Packed**: drum, net weight 200 kg. Miniteps , net weight , 1,000 Kg .

### STORAGE :

**Bulk** : in tank cars made of stainless steel, aluminum or strength plastic, closed and provided with air escapes.

**Packed**: in steel carbon tanks, closed with vents to avoid humidity. Drums have to be stored in covered, dry and aired area, protected from solar rays. Drums storage can be either horizontal or vertical (with the mouths directed toward top), on plain floor, with the use of adequate supports.