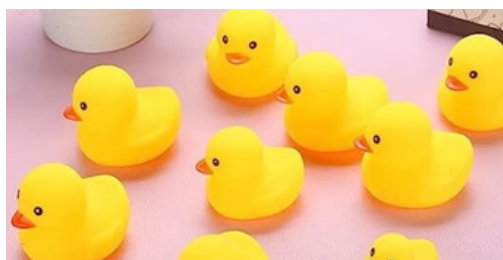


## GENERAL PLASTICIZER

A substance or material incorporated in a material to increase its flexibility, workability, or distensibility.



TYPE	PRODUCT	FEATURE	APPLICATION
PHTHALATE	<b>Di (2-ethylhexyl) Phthalate (DOP or DEHP)</b>	<ul style="list-style-type: none"> <li>A work-horse plasticizer for general purpose</li> </ul>	<ul style="list-style-type: none"> <li>PVC sheet, film, leather,</li> <li>Wire &amp; cable insulation, and paint.</li> </ul>
	<b>Diisononyl Phthalate (DINP)</b>	<ul style="list-style-type: none"> <li>A general plasticizer, next to DOP better in terms of better performance</li> </ul>	<ul style="list-style-type: none"> <li>PVC sheet, film, leather</li> <li>Very suitable for coating application due to its less specific gravity compared to DOP</li> <li>Wire &amp; Cable insulation</li> </ul>
	<b>Di(2-propylheptyl) Phthalate (DPHP)</b>	<ul style="list-style-type: none"> <li>Good for electrical insulation</li> <li>Excellent performance in fogging test</li> <li>Good in outdoor weathering</li> <li>Similar performance to DIDP</li> </ul>	<ul style="list-style-type: none"> <li>High temperature for wire &amp; cable insulation</li> <li>Non-fogging for automotive industry</li> </ul>
NON - PHTHALATE	<b>Diocetyl Adipate (DOA)</b>	<ul style="list-style-type: none"> <li>Low temperature resistance</li> <li>Good for viscosity stability</li> </ul>	<ul style="list-style-type: none"> <li>A primary plasticizer intended for use in clear PVC, Film for packaging, Gaskets for cold weather applications and flexible vinyl strips used in cold room doors</li> <li>A secondary plasticizer to augment the low temperature performance of GP phthalates or to reduce the viscosity of plastisols</li> </ul>
	<b>Triocetyl Trimellitate (TOTM)</b>	<ul style="list-style-type: none"> <li>-Excellent performance in heat, oil, migration and water resistance</li> </ul>	<ul style="list-style-type: none"> <li>High temperature PVC wire &amp; cable insulation</li> <li>Gasket product</li> </ul>
	<b>Diocetyl Terephthalate (DOTP)</b>	<ul style="list-style-type: none"> <li>A non-phthalate and environmental friendly plasticizer for general purpose</li> <li>Low plastisol viscosity</li> <li>Less volatile than DOP</li> <li>Low temperature flexibility</li> <li>Good resistance to migration into nitrocellulose furniture finish</li> </ul>	<ul style="list-style-type: none"> <li>Toy and child care product</li> <li>Wire &amp; cable Insulation</li> <li>PVC sheet, film</li> <li>Carpet backing, Wall covering and Vinyl flooring</li> </ul>

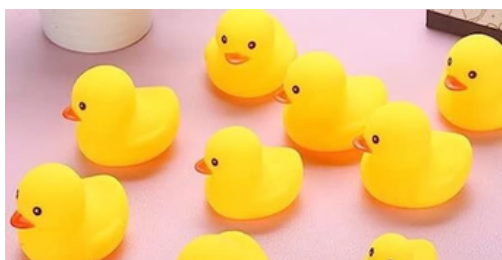


## GENERAL PLASTICIZER

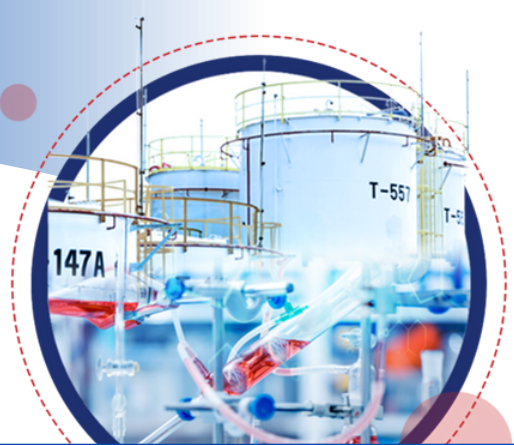


### TECHNICAL DATA

ITEM	Di (2-ethylhexyl) Phthalate (DOP or DEHP)	Diisononyl Phthalate (DINP)	Di(2-propylheptyl) Phthalate (DPHP)	Diocetyl Adipate (DOA)	Triocetyl Trimellitate (TOTM)	Diocetyl Terephthalate (DOTP)
<b>Appearance</b>	Clear, Colorless	Clear, Colorless	Clear, Colorless	Clear, Colorless	Clear, Colorless	Clear, Colorless
<b>Ester Content (%)</b>	99.50 (min.)	99.50 (min.)	99.50 (min.)	99.00 (min.)	99.00 (min.)	99.00 (min.)
<b>Color (APHA)</b>	25 (max.)	25 (max.)	25 (max.)	30 (max.)	100 (max.)	30 (max.)
<b>Specific Gravity @20°C</b>	0.983 - 0.989	0.971 - 0.977	0.960 - 0.968	0.923 - 0.929	0.985 - 0.995	0.981 - 0.987
<b>Acid Value (mgKOH/g)</b>	0.0500 (max.)	0.0500 (max.)	0.0700 (max.)	0.0500 (max.)	0.0500 (max.)	0.1000 (max.)
<b>Water Content (%)</b>	0.10 (max.)	0.10 (max.)	0.10 (max.)	0.10 (max.)	0.10 (max.)	0.10 (max.)
<b>Volume Resistivity @25° C (GΩ·CM)</b>	120 (min.)	200 (min.)	300 (min.)	120 (min.)	300 (min.)	120 (min.)



## SPECIALTY PLASTICIZER



PRODUCT	FEATURE	APPLICATION
<b>SOPLAS - 124</b>	<ul style="list-style-type: none"> <li>• Low volatility</li> <li>• Non-fogging performance</li> <li>• Balance of heat stability and low temperature flexibility</li> </ul>	<ul style="list-style-type: none"> <li>• Automotive</li> <li>• Wire and Cable</li> </ul>
<b>n - Octyldecyltrimellitate (TOTM 810)</b>	<ul style="list-style-type: none"> <li>• Low temperature flexibility.</li> <li>• Resistance to oxidative degradation at high temperatures.</li> <li>• Low migration</li> </ul>	<ul style="list-style-type: none"> <li>• Higher temperature PVC wire &amp; cable insulation.</li> <li>• Gasket product</li> <li>• Cable harness</li> </ul>

## TECHNICAL DATA

ITEM	n - Octyldecyltrimellitate (TOTM 810)	SOPLAS - 124
<b>Appearance</b>	Transparent Liquid, No foreign matter	Clear, Colorless
<b>Ester Content (%)</b>	99.00 (min.)	99.00 (min.)
<b>Color (APHA)</b>	100 (max.)	100 (max.)
<b>Specific Gravity @20°C</b>	0.978 - 0.984	0.955 - 0.962
<b>Acid Value (mgKOH/g)</b>	0.300 (max.)	0.100 (max.)
<b>Water Content (%)</b>	0.10 (max.)	0.10 (max.)
<b>Volume Resistivity @25° C (GΩ·CM)</b>	500 (min.)	200 (min.)

