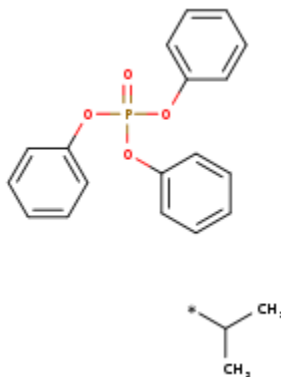


## Technical Data Sheet

<b>Product name:</b>	Triaryl Phosphate Isopropylated
<b>Product Form:</b>	Liquid
<b>Chemical name:</b>	Isopropylated phenol, phosphate
<b>Synonym:</b>	Phenol, isopropylated, phosphate (3:1)
<b>CAS No:</b>	68937-41-7
<b>EINECS No:</b>	273-066-3
<b>Molecular formula:</b>	Unspecified
<b>Molecular weight:</b>	Unspecified
<b>Structure formula:</b>	



### Chemical Specification

	Grade 1	Grade 2	Grade3	Grade 4
Appearance		Colorless transparent liquid		
Color (APHA)			50 max.	
Acidity (mgKOH/g)			0.1 max.	
Flash Point (°C)			220 min.	
Free Phenols (%)			100 max.	
Moisture (%)			0.1 max.	
Refractive index (N <sup>23</sup> )			1.546 – 1.555	
Density (g/cm <sup>3</sup> )	1.180 – 1.190	1.168 – 1.180	1.160 – 1.175	1.125 – 1.155
Viscosity (CP @25°C)	42 - 52	48 - 64	64 - 76	95 – 114
Phosphate (%)	~ 8.6	8.3 – 8.5	~ 8.1	~ 7.6

**Packing:** IBC/ISOtank/drum as customer's requirement

**TGA** (10 mg@10°C/min under N<sub>2</sub>)

Weight loss (%)	Temperature (°C)
5	217
10	235
50	287

**Solubility** (g/100g solvent)

Water	Insoluble
Methylene Chloride	Complete
Methanol	Complete
Toluene	Complete
Methyl Ethyl Ketone	Complete

**Description and applications**

It is a synthetic isopropylated triaryl phosphate ester used for various applications as a flame retardant plasticizer.

With low viscosity, is used in plastisols for fabric coating and other applications where its low viscosity improves the processing conditions.

It improves the characteristics of the coated fabrics (compared to other additives, it gives a drier finish) and has a high plasticizing efficiency combined with flame retardant properties. It is also used as a flame retardant additive in phenolic resins.

It is mainly used for: EPDM, PVC, HIPS, PC/ABS, PPO/HIPS, rigid and flexible polyurethane, TPU, epoxy resins, phenolic resin, coating paints, coatings for textile industry.

Grade 2/Grade 3/Grade 4 are applied as a flame retardant additives in PVC, flexible polyurethanes, cellulosic resins, and synthetic rubber. They can be also used as a flame retardant processing aid for engineering resins, such as modified PPO, polycarbonate and polycarbonates blends.

They are mainly used for: EPDM, PVC, Flexible PU foam, PVC, Rigid PU, Flexible PU, TPU, Epoxy resin, Phenolic resin, Adhesive, Rubber.

**Storage**

Store the product in a cool, dry, well ventilated place away from incompatible materials