



KANATOL - FLAMEGUARD C 70

TRI CRESYL PHOSPHATE (TCP-70)
Phosphate plasticizer for PVC and PVC copolymers

Chemical Nature Phosphoric acid Di methylphenyl phenyl ester

Chemical name	:-	TRI CRESYL PHOSPHATE-70 (TCP-70)
Trade Name	:-	TCP-70 %
Molecular Formula	:-	C ₂₀ H ₁₉ O ₄ P
Molecular weight	:-	354.31
Molecular Structure	:-	N.A.

CAS Number	:-	26444-49-5
UN. NO.	:-	3082
EINECS NO.	:-	247-693-8

Specification	Characteristics	Unit	Test Method	Value
Appearance			Visual	Clear Liquid.
Colour	HU	ASTM-D-1045-86	150 max.	
Specific Gravity (25°C)	-	ASTM-D-1045-86	1.190 ± 0.010.	
Acidity	wt. %	ASTM-D-1613	0.01 max.	
Moisture	wt. %	K.F ASTM-E-203-01	0.10 max.	
Free Alcohol	%	KOR/QCD/FP-3.4	0.05 max.	
Refractive Index (27°C)		ASTM - 1807	1.5500-1.5650.	
Ester Content		GLC KOR/QCD/FP-4.7	99.00 min.	
Cresolic Ester Content		GLC KOR/QCD/FP-4.7	70.00 min.	
O-Isomer Content	%	GLC KOR/QCD/FP-4.7	0.50 max.	
Viscosity (cps) @ 25 °C	cps	Brook Field	50 - 60.	
		ASTM D- 445		
Water Soluble Impurities	ppm	BS: 1998:1970	10 max.	
p' Content	%	kor/qcd/fp-3.8	8.70-8.80.	

Properties

TCP-70 is the most efficient plasticizer to the liquid tri aryl phosphate type. It is colour less to pale yellow liquid insoluble in water & soluble in benzene, toluene etc.

Total Solution in Plasticizers



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Application

It is low volatile, having good resistance to saponification and oil extraction hence used as a lubricant in adhesives for extreme pressure and fire risk from heat source and electrical sparks.

TCP-70 is mainly used as flame retardant plasticizer in many plastics & reins for the application of manufacturing electrical & automobile parts.

TCP-70 is used in flame retardant formulations or as an additive in cellulose, polyester and polyurethane.

TCP-70 is used in styrenic thermoplastics as an alternative to halogenated flame retardant.

Packing & Storage

TCP-70 is packed in 50/240/250 kg HDPE carboy/drum, 20 - 22 ISO Tank/road tanker. It is stored in tightly closed container, in a cool, & dry ,ventilated area.

Shelf life

Original characteristics remains intact for a period of 24 months, if kept in recommended storage.

Safety

The MSDS can be provided on request.

Disclaimer

The data contained in this publication are based on our current knowledge and experience. During processing, there are so many factors which may affect the application part of TCP-70, so these data neither imply any guarantee of certain properties, nor the suitability of the product for the specific purpose. Any data given in this publication may change without prior information and do not constitute the agreed quality of our product

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