

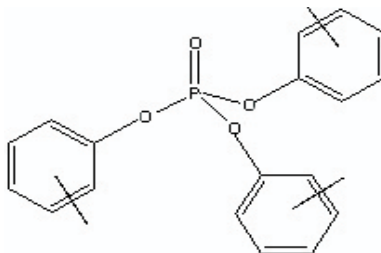


TRI CRESYL PHOSPHATE

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Phosphate plasticizer for PVC and PVC copolymers

Chemical Nature	Phosphoric Acid Tricresyl Ester
Chemical name	:- TRI CRESYL PHOSPHATE (TCP)
Trade Name	:- TCP-100
Molecular Formula	:- C ₂₁ H ₂₁ O ₄ P
Molecular Weight	:- 368.37 g/mole
Molecular Structure	



CAS Number	:- 1330-78-5
UN. NO.	:- 3082
EINECS NO.	:- 215-548-8

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	1.170 ± 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	99.00 min.
	O-Isomer Content	%	GLC KOR/QCD/FP-4.7	0.50 max.
	p' Content	%	kor/qcd/fp-3.8	8.40-8.50
	Viscosity (cps) @ 25 °C	cps	Brook Field	55 - 70.
	Water Soluble Impurities	ppm	ASTM-D- 445 BS: 1998:1970	10 max.

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Properties

TCP-100 is general purpose tri aryl phosphate. It is colourless to pale yellow liquid free of foreign materials. It is widely used among Phosphoric Ester due to its characteristic like fire retardancy, electrical insulation, low volatility and insolubility in water.

Application

TCP-100 is used in flexible PVC, cellulose nitrate and ethyl cellulose coating.

TCP-100 is used in electrical cable compound for FR properties and also in synthetic compound.

It has low volatility, good saponification resistance and good resistance to extraction by oil hence used as a lubricants adhesives for extreme pressure and fire risk from heat source and electrical sparks.

TCP-100 is used in vinyl tarpaulin, conveyer belts air ducks etc.

Packing & Storage

TCP-100 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-100, 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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