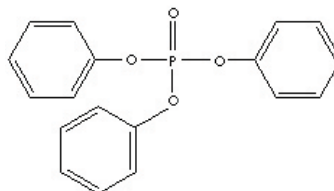


TRI PHENYL PHOSPHATE (TPPA)

TRI PHENYL PHOSPHATE (TPPA) Phosphate plasticizer

Chemical Nature Phosphoric Acid Triphenyl Ester
 Chemical name :- TRI PHENYL PHOSPHATE
 Trade Name :- FLAMEGUARD 66
 Molecular Formula :- (C₆H₅O)₃ PO
 Molecular weight :- 326.29 g/mole
 Molecular Structure :-



CAS Number :- 115-86-6
 UN. NO. :- 3082
 EINECS NO. :- 204-212-2

Specification	Characteristics	Unit	Test Method	Value
Appearance			Visual	White Crystline Flakes
Colour		HU	ASTM-D-1045-86	25 max.
Specific Gravity (60°C)		-	ASTM-D-1045	1.208.
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.
Ester Content		%	GLC KOR/QCD/FP-4.7	99.00 min.
Viscosity (60°C)		cps	Brook Field	17.00.
			ASTM D- 445	
Melting Point		°C	IS-5762 : 1970	47.5-49.5
Water Soluble Impurities		ppm	BS :1998 :1970	10 max.
p' Content		%	KOR/QCD/FP-3.8	9.40-9.50

Properties

TPPA is the colour less solid, usually sold in a flaked form (mp. 48-490C), TPPA is the general purpose monomeric naturally derived triaryl phosphate. It is most widely used among natural Phosphate Ester due to characteristics like weather resistance, fire retardancy, good flexibility and low solubility in water.

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Application

TPPA is used as a flame retardant plasticizer for cellulose acetate, photographic safety film which is its major use. Also used as a flame retardant additive in cellulose nitrile, engineering thermoplastic and rigid urethane form. Where compatibility is limited with pure tri phenyl phosphate combination with other plasticizer such as phthalates are used

Packing & Storage

TPPA is packed in 25/50 kg paper drum / bag. It is stored in tightly closed container, in a cool & dry, ventilated area.

Shelf life

Original characteristics remain 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 TPPA, 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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