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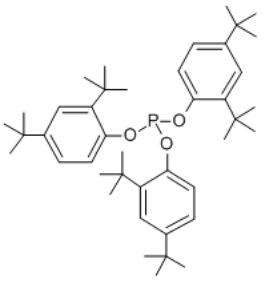
GC THANOX 168



Tris(2,4-di-tert-butylphenyl) phosphite

Chemical Formula	$C_{42}H_{63}O_3P$
Molecular Weight	646.92 g/mol
CAS Registry Number	31570-04-4

GC THANOX 168 is an organophosphate antioxidant that exhibits excellent hydrolytic stability. GC THANOX 168 effectively reduces oxidative degradation of most polymeric substances during processing. GC THANOX 168 has a low volatility which allows for use at high temperatures that are required for processing thermoplastic polymers.
GC THANOX 168 is suitable for use in a multitude of polymers such as polyolefins, polycarbonate, ABS and polyesters.

PHYSICAL-CHEMICAL PROPERTIES

Appearance	White powder			
Assay (HPLC), %	Min 99.0			
Density, g/cm^3	1.00			
Melting point, °C	183-187			
2,4-DTBP, %	Max 0.2			
Volatiles, %	Max 0.3			
Solubility, @ 20°C in 100g solvent	Methanol:	Insoluble	Acetone:	1 g
	Water:	Insoluble	Chloroform:	36 g
	n-Hexane:	11 g	Ethyl Acetate:	4 g
	Benzene:	34 g		
Transmittance, 5g/50 ml Toluene	@425 nm	≥ 98.0 %		
	@500 nm	≥ 98.0 %		

TGA, 10 mg @ 10°C/min under N_2	Weight Loss	5 %	10 %	25 %
	Temperature	239 °C	250°C	272 °C

HANDLING AND STORAGE:	The processing and use of GC THANOX 168 requires adequate technical and professional knowledge. Please consult safety data sheet for further handling, storage and toxicity information. GC THANOX 168 has to be stored in tightly sealed original container in a cool and well-ventilated area, away from direct sunlight.
PACKAGING:	Standard packaging size of GC THANOX 168 is in 25 Kg in plastic bags.

GREENCHEMICALS S.p.A. Via Lavoratori Autobianchi, 1 - 20832 Desio MB Tel.: +39 0362 1547305
info@greenchemicals.green www.greenchemicals.eu Fax: +39 039 8942754