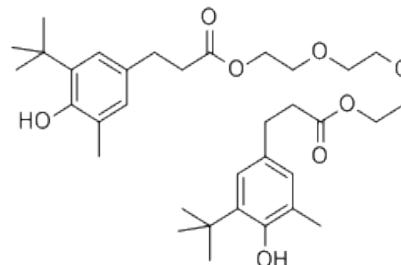


GC THANOX 245

Triethyleneglycol-bis[3-(3-t-butyl-4-hydroxy-5-methylphenyl)propionate]

Chemical Formula $C_{34}H_{50}O_8$
Molecular Weight 586.76 g/mol
CAS Registry Number 36443-68-2



GC THANOX 245 is a high molecular weight phenolic antioxidant that provides very low volatility and excellent resistance to extraction from polymer compounds. **GC THANOX 245** is effective in styrene polymers, particularly impact-modified polystyrenes, ABS, MBS, SB as well as in POM homo- and co-polymers. It is also very useful for the stabilization of polyurethanes, polyamides, thermoplastic polyesters, PVC and other polymers. **GC THANOX 245** is effective as chain stopper during PVC polymerization. **GC THANOX 245** can be used in combination with other additives such as co-stabilizers (e.g. thioesters, phosphites, phosphonites), light stabilizers and other functional stabilizers. The effectiveness of the blends of **GC THANOX 245** with GC THANOX 168 is noteworthy.

PHYSICAL-CHEMICAL PROPERTIES

Appearance	White powder			
Assay, %	Min.96.0			
Density, g/cm ³	1.14			
Melting point, °C	76-81			
Volatiles, %	Max.0.5			
Transmittance (5g/50 ml Toluene)				
@425 nm, %	Min.95.0			
@500 nm, %	Min.97.0			
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		
TGA (10 mg @ 10°C/min under N ₂)	Weight Loss	5 %	10 %	25 %
	Temperature	297°C	312°C	332 °C

HANDLING AND STORAGE: The processing and use of GC THANOX 245 requires adequate technical and professional knowledge. Please consult safety data sheet for further handling, storage and toxicity information. GC THANOX 245 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 245 is in 25 Kg in plastic bags.

NOTE:

Information contained in this document is provided to the best of our knowledge and is considered true as per revision date. We do not accept any liability for loss and damage that may occur from the improper use of this information and for the use against the safety legal requirements and patent rights. This specification does not release the customer from the obligation to check the product as to its suitability for intended area of usage.