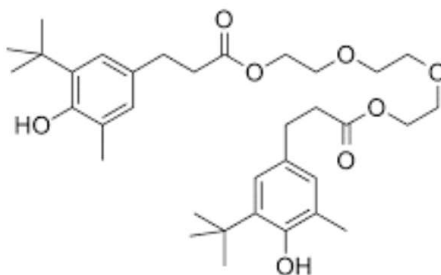


PUREstab 245

Phenolic Primary Antioxidant for Processing and Long-Term Thermal Stabilization

Description: PUREstab 245 is a sterically hindered phenolic antioxidant particularly suitable for organic substrates. It protects the substrates against thermo-oxidative degradation during manufacturing, processing and end-use. Irganox 245 is odorless, of low volatility, has a good color stability and exhibits high extraction resistance.

Formula



Chemical name: Ethylene bis(oxyethylene) bis-(3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate)

CAS number: 36443-68-2 **Molecular weight:** 587 g/mol

Features & benefits: PUREstab 245 can be used in combination with other additives such as costabilizers (e.g. thioesters, phosphites, phosphonites, lactones), light stabilizers, and other functional stabilizers. The effectiveness of the blends of PUREstab 245 with PUREfos 168 is noteworthy.

Application: PUREstab 245 is effective in styrene polymers, particularly impact modified polystyrenes, ABS, MBS, SB and SBR-latexes as well as in POM homo- and copolymers. It is also very useful for the stabilization of polyurethanes, polyamides, thermoplastic polyesters, PVC and other polymers. In addition to imparting thermostability to the finished polymer PUREstab 245 is effective as chain stopper during PVC polymerization.

Health & Safety: PUREstab 245 exhibits a very low order of oral toxicity and does not present any abnormal problems in its handling or general use.

Physical Properties:

Melting range	76-79°C
Flashpoint	>150°C
Vapor pressure (20°C)	4 E-8 Pa
Density (20°C)	1.14 g/ml
Solubility (20°C) g/100g solution	Solubility (20°C) g/100g solution
- Acetone	>50
- Benzene	18.0
- Chloroform	>40
- Methanol	12.0
- Ethyl acetate	37.0
- Ethanol	10.0
- n-hexane	<0.1
- Toluene	6.0
- Styrene	6.0
- Water	<0.01