

PowerNox™ 2450 Phenolic Antioxidant

Introduction PowerNox™ 2450 is a primary antioxidant for organic polymers. Chain Stopper in PVC and ABS manufacturing process. It exhibits a synergistic effect when used in combination with thioester antioxidants.

Chemical Name Triethylene glycol-bis-3-(3-tert-butyl-4-hydroxy-5-methylphenyl) propionate

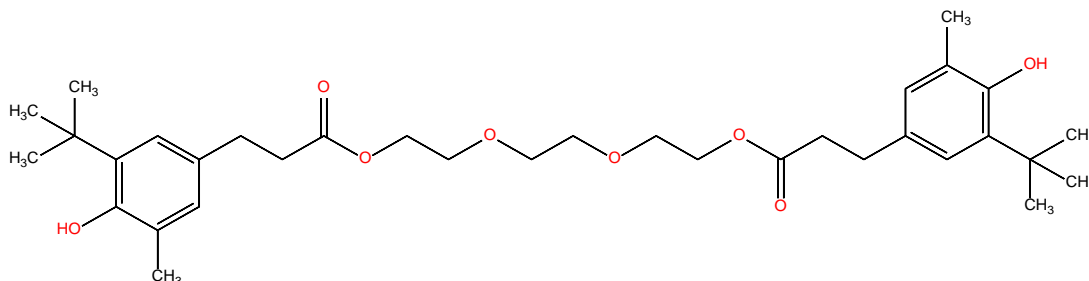
Synonym:

Ethylenebis(oxyethylene)bis-(3-(5-tert-butyl-4-hydroxy-m-tolyl)- Propionate)

CAS Number 36443-68-2

EINECS Number 253-039-2

Chemical Structure



Chemical Formula $C_{34}H_{50}O_8$

Molecular Weight 587

Physical Properties

Appearance	Free-flowing White Powder
Melting Point [°C]	76-79
Volatile loss (%)	Max.0.5
Color of solution 425nm (%)	Min.95
Color of solution 500nm (%)	Min.97
Ash (%)	Max.0.1
Purity (%)	Min.98

PowerNox™ 2450 Phenolic Antioxidant

Solubility

Solubility [20°C]	% w/w
Acetone	>50
Benzene	18
Chloroform	>40
Ethanol	10
Ethyl acetate	37
n-Hexane	<0.1
Methanol	12
Dichloromethane	>40
Toluene	6
Styrene	6
Water	<0.01

Benefits & Applications

PowerNox™ 2450 is a high performance sterically hindered phenolic antioxidant that protects the polymer against thermo-oxidative degradation during the manufacturing processes and in end-use applications.

PowerNox™ 2450 is an effective antioxidant for styrenics, synthetic rubbers, POM homo & copolymer, polyurethanes, polyamides, polyesters, MBS and PVC.

PowerNox™ 2450 is low volatility, good color stability, and extraction resistant.

PowerNox™ 2450 can be used with benzotriazoles or HALS for thermal and light stabilization in outdoor use.

Handling & Storage

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. Protect skin. Avoid dust formation and ignition sources.

This product may be stored up to one year in a sealed container. Containers should be stored in a cool, dry area. Extended storage at elevated temperatures or exposure to direct heat or sunlight could reduce product



PowerNox™ 2450 Phenolic Antioxidant

life. Keep containers sealed when not in use.

For more detailed information please refer to the material safety data sheet.

Packing

PowerNox™ 2450 is supplied in 25Kg Carton Box, 50Kg Fiber Drum.

Note

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability.

We disclaim liability for any incidental or consequential damages.