

PowerNox™ 1010 Antioxidant

Introduction

PowerNox™ 1010 is a primary antioxidant for organic polymers. It exhibits a synergistic effect in combination with PowerNox™ 1680 and other secondary antioxidants.

Chemical Name

Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)

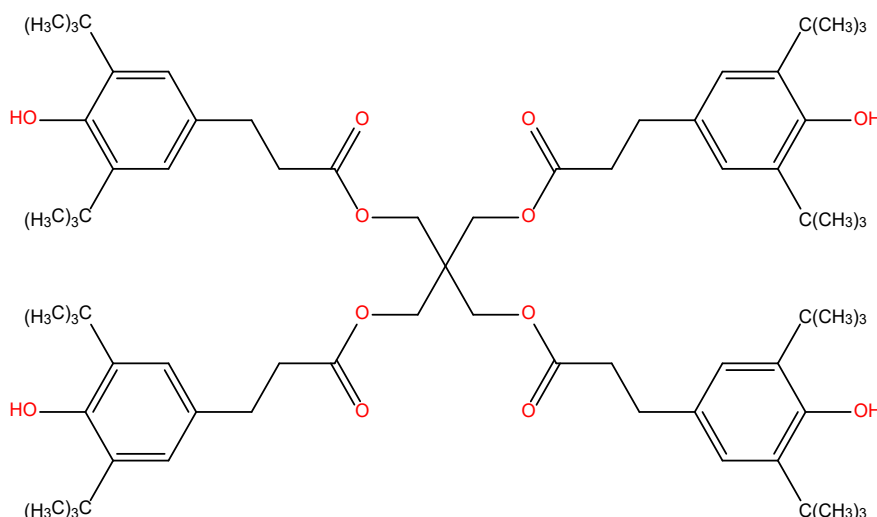
CAS Number

6683-19-8

EINECS Number

229-722-6

Chemical Structure



Chemical Formula

C₇₃H₁₀₈O₁₂

Molecular Weight

1178

PowerNox™ 1010 Antioxidant

Physical Properties

Appearance	White Crystalline granular
Melting Point [20°C]	110-125
Flash Point [20°C]	280
Volatile Loss (%)	Max.0.5
Color of Solution 425nm (%)	Min.95
Color of Solution 500nm (%)	Min.97
Ash (%)	Max.0.1
Purity (%)	Min.98

Solubility

Solubility [20°C]	% w/w
Acetone	47
Benzene	56
Chloroform	71
Ethanol	1.5
Ethyl acetate	46
n-Hexane	0.3
Methanol	0.9
Dichloromethane	63
Toluene	60
Water	<0.01

Benefits & Applications

PowerNox™ 1010 is an effective antioxidant for use in polymer processing, reducing viscosity change and gel formation.

PowerNox™ 1010 provides long term heat stability - protects physical properties during storage and use of end-product.

PowerNox™ 1010 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.

PowerNox™ 1010 Antioxidant

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 life. Keep containers sealed when not in use.

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

Packing

PowerNox™1010 is supplied in 20Kg Paper Bag, 20Kg PE Bag, 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.

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