

PowerSorb™ 234 UV Absorber

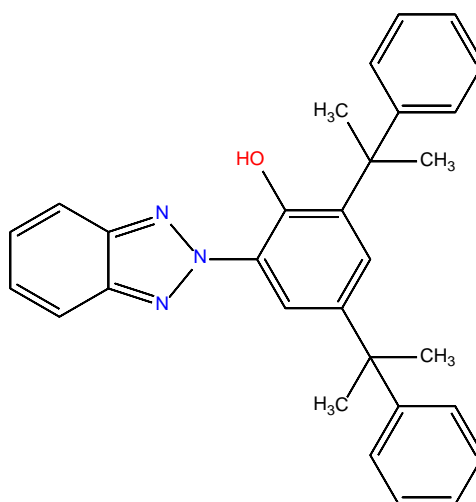
Introduction PowerSorb™ 234 is a high molecular weight ultraviolet light absorber (UVA) of the hydroxyphenyl benzotriazole class, imparting excellent light stability to a variety of polymers.

Chemical Name 2-[2-hydroxy-3,5-di-(1,1-dimethylbenzyl)]-2H-benzotriazole;
2-(2H-benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl) phenol

CAS Number 70321-86-7

EINECS Number 274-570-6

Chemical Structure



Chemical Formula C₃₀H₂₉N₃O

Molecular Weight 448

PowerSorb™ 234 UV Absorber

Physical Properties

Appearance	Off-white powder
Melting Range (°C)	138-142
Volatile Loss (%)	Max.0.3
Specific Gravity (20°C, g/cm ³)	1.22
Vapor Pressure (20°C, Pa)	~2 ⁻¹⁰
Color of Solution (460nm, %)	Min.97
Color of Solution (500nm, %)	Min.98
Ash (%)	Max.0.05
Purity (%)	Min. 99

Solubility

Solubility [20°C]	% w/w
Acetone	2
Benzene	10
Chloroform	35
Cyclohexane	5
Ethanol	0.3
Ethyl acetate	4
n-Hexane	0.6
Methanol	<0.1
Dichloromethane	34
MEK	13
Toluene	20
Butyl carbitol	0.2
Butanol	0.3
Butyl acetate	4.5
Ethyl glycol	1
Xylene	10
Water	<0.01

Benefits & Applications

PowerSorb™ 234 is highly effective for polymers processed at high temperatures such as polycarbonates, poly alkylene terephthalates, polyacetals, polyamides, polyphenylene sulfide, polyphenylene oxide, aromatic copolymers, thermoplastic polyurethane and polyurethane fibers, as well as for polyvinylchloride, styrene homo- and copolymers. Applications include molded articles, films, sheets and fibers.

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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 life. Keep containers sealed when not in use.

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

Packing

PowerSorb™ 234 is supplied in 25Kg Cartons or Drums.

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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