

PowerSorb™ 234

New Materials Creating New Performances

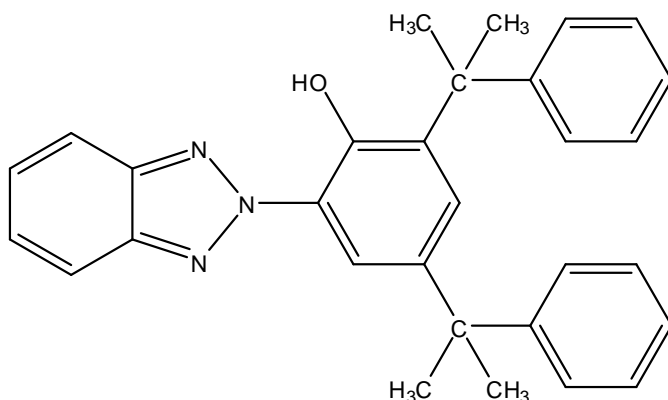
**Quality Products.
Dependable Service.**

CHEMICAL NAME

2-[2-hydroxy-3,5-di-(1,1-dimethylbenzyl)]-2H-benzotriazole

Synonym: 2-(2H-benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl) phenol

CHEMICAL STRUCTURE



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.

PHYSICAL PROPERTIES

CAS No.	70321-86-7
EC No.	274-570-6
Formula	C ₃₀ H ₂₉ N ₃ O
Molecular Weight	448
Melting Range	138-142°C
Volatile Loss (%)	Max.0.3
Specific Gravity _{20°C}	1.22g/cm ³

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Vapor Pressure 20°C	~2 ⁻¹⁰ Pa
Appearance	Off-white Powder
Color of Solution 460nm (%)	Min.97
Color of Solution 500nm (%)	Min.98
Ash (%)	Max.0.05
Min. Purity	99%
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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
Butylcarbitol	0.2
Butanol	0.3
Butylacetate	4.5
ethylglycol	1
xylene	10
Water	<0.01

APPLICATIONS

PowerSorb™ 234 is highly effective for polymers processed at high temperatures such as polycarbonates, polyalkylene 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 AND 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.

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