

# PowerSorb™ 1000 UV Absorber

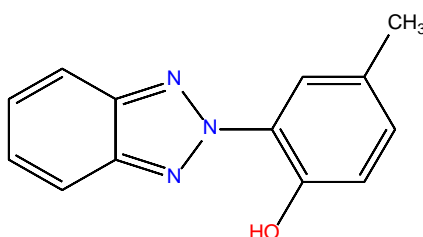
**Introduction** PowerSorb™ 1000 is a strong absorber of UV radiation, imparting good light stability to a wide variety of polymers. It is a slightly yellowish crystalline powder.

**Chemical Name** 2-(2H-benzotriazol-2-yl)-p-cresol;  
 Synonym: 2-(2H-Benzotriazole-2-yl)-4-methylphenyl;  
 2-(2'-hydroxy-5'-methylphenyl) benzotriazole

**CAS Number** 2440-22-4

**EINECS Number** 219-470-5

**Chemical Structure**



**Chemical Formula** C<sub>13</sub>H<sub>11</sub>N<sub>3</sub>O

**Molecular Weight** 225

**Physical Properties**

Appearance	Slightly yellow powder
Melting Point (°C)	128-132
Flash Point (°C)	205
Specific Gravity (20°C, g/cm <sup>3</sup> )	1.38
Vapor Pressure (20°C, Pa)	1.5E-4
Volatiles (%)	Max.0.5
Transmittance (500nm, %)	5g/100ml
Color of Solution (440nm, %)	Min.97
Color of Solution (500nm, %)	Min.98
Ash (%)	Max.0.1
Purity (%)	Min.99

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### Solubility

Solubility [20°C]	% w/w
Acetone	3
Chloroform	13
Dioctyl phthalate	2
Benzene	7
Butyl acetate	3
Carbitol	2
Ethanol	0.3
Ethyl acetate	3
n-Hexane	0.8
MEK	4
Methanol	0.2
Dichloromethane	16
Methyl methacrylate	5
Mineral spirits	1.5
Styrene	7
Toluene	6
Water	<0.01

### Benefits & Applications

PowerSorb™ 1000 provides ultraviolet protection in a wide variety of polymers including styrene homoand copolymers, engineering plastics such as polyesters and acrylic resins, polyvinyl chloride, and other halogen containing polymers and copolymers (e.g. vinylidenes), acetals and cellulose esters. Elastomers, adhesives, polycarbonate blends, polyurethanes, and some cellulose esters and epoxy materials also benefit from the use of PowerSorb™ 1000.

### 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

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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™ 1000 is supplied in 25Kg Plastic Drum lined iron barrel.

### **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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We disclaim liability for any incidental or consequential damages.