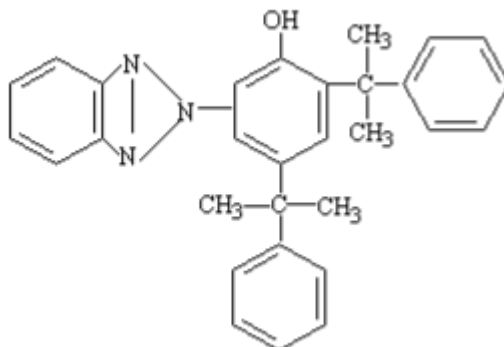


PUREsorb 234

Low Volatile Benzotriazole UV Absorber

Description **PUREsorb 234** is a high molecular weight ultraviolet light absorber (UVA) of the hydroxy phenylbenzotriazole class, imparting outstanding light stability to a variety of polymers.

Chemical Structure



Chemical name 2-(2'-hydroxy-3',5'-di-cumylphenyl)benzotriazole
CAS number 70321-86-7 **Molecular weight:** 447.6 g/mol

Features & benefits **PUREsorb 234** features low volatility, exceptional light absorbing characteristics and good compatibility in various substrates. This makes **PUREsorb 234** especially suitable for applications characterized by high surface area, such as films and fiber. It protects organic polymers as well as pigments from UV light, improving and preserving the technical and visual performance of such applications.

Applications **PUREsorb 234** areas of application include molded articles, films, sheets and fibers. In addition **PUREsorb 234** is highly effective in high temperature processed polymers such as poly-carbonate, polyesters, polyacetal, polyamides, polyphenylene sulfide, polyphenylene oxide, aromatic copolymers, thermoplastic polyurethane and polyurethane fibers, where loss of UVA is not tolerated as well as for polyvinylchloride, styrene homo- and copolymers. **PUREsorb 234** may be used in range between 0.15 – 0.60%, depending on substrate and performance requirements of the final application. **PUREsorb 234** can be used on its own or can be blended with other UVA and stabilizers where often a synergistic performance is observed.

Handling & Safety 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. Avoid dust formation and ignition sources. For more detailed information please refer to the material safety data sheet.

Storage **PUREsorb 234** has to be stored in tightly sealed original container in a cool and well-ventilated area, away from direct sunlight.

TECHNICAL DATA SHEET

Polygel Product Management

Email: info@polygelbrunei.com



Physical Properties:

Product forms	White powder		
Melting range	138.5 - 141°C		
Flash point	>150°C		
Vapor pressure (20°C)	2 E-10 Pa		
Specific Gravity (20 °C)	1.22 g/mL		
Bulk density (g/l)	0.55 – 0.65 g/cm ³		
Solubility (20°C) g/100g solution	Solubility (20°C) g/100g solution		
- Acetone	2	- Ethyl Acetate	4
- Chloroform	35	- n-Hexane	0.6
- Cyclohexane	5	- Methanol	<0.1
- Ethanol	0.3	- Methylene Chloride	34
- Toluene	20	- Water	< 0.01

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November 2020