

# Technical Data Sheet

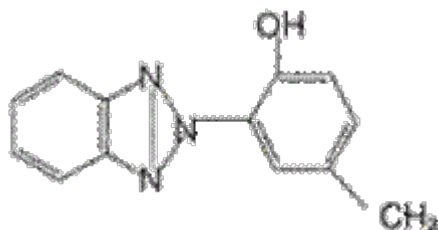
## LeSORB® UV-P

**Chemical name:** 2-(2'-Hydroxy-5'-methylphenyl) benzotriazole

**Introduction:** LeSORB UV-P is a benzotriazole type ultraviolet light absorber (UVA), imparting good light stability for plastics and other organic polymers. It protects polymers as well as organic pigments from UV radiation helping to preserve the original appearance and physical integrity of engineered plastics, elastomers, PVC, adhesives, and polyurethanes during outdoor weathering.

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

**CAS NO:** 2440-22-4



**Structure:**

### Physical Properties:

Molecular Weight	225.3
Appearance	Slight yellow powder or pellet
Purity (HPLC)	≥99%
Melting Range	128-132 °C
Flashpoint	205 °C
Specific Gravity(20 °C )	1.38g/cm <sup>3</sup>

### Volatility Pure substance; TGA, heating rate 20 °C /min in air

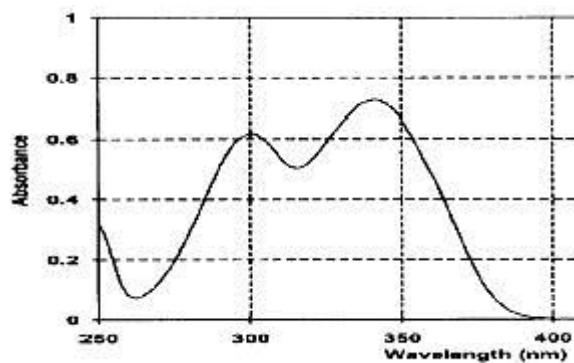
Weight Loss (%)	Temperature °C
1.0	153
2.0	170
5.0	190

Solubility At 20 °C (g/100ml solvent)

Solvent	Solubility
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Acetone	3%
Benzene	7%
Butyl acetate	3%
Carbitol	2%
Chloroform	13%
Diethyl phthalate	2%
Ethanol	0.3%
Ethyl Acetate	3%
n-Hexane	0.8%
MEK	4%
Methanol	0.2%
Methylene Chloride	16%
Methyl methacrylate	5%
Mineral spirits	1.5%
Styrene	7%
Toluene	6%
Ethanol	0.8%

## UV Absorption



Absorption Spectrum (10mg/l, Chloroform)

### Applications

1. Unsaturated Polyester: 0.2-0.5wt% based on polymer weight
2. PVC:
  - Rigid PVC: 0.2-0.5wt% based on polymer weight
  - Plasticized PVC: 0.1-0.3wt% based on polymer weight

3. Polyurethane: 0.2-1.0wt% based on polymer weight
4. Polyamide: 0.2-0.5wt% based on polymer weight

### **Toxicity & Safety**

This material is not intended for use in products for which prolonged contact with mucous membranes or abraded skin, or implantation within the human body is specially intended, unless the finished product has been tested in accordance with the Food and Drug Administration and/or other applicable safety testing requirements. Because of wide range of such potential uses, Nanjing Lepuz Chemical Co., Ltd. is not able to recommend this.

### **Material**

As safe and effective for such uses and assumes no liability for any such uses.

### **Storage**

LeSORB UV-P may be stored up to two years 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 no in use.

### **Handing**

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Protect skin. Prevent contamination of the environment. Avoid dust formation and ignition sources.

### **Packing**

LeSORB UV-P is available in powder form in a 25kg (55.1 pound) carton, net weight, with an inner PE liner.