

# PowerSorb™ 284

*New Materials Creating New Performances*

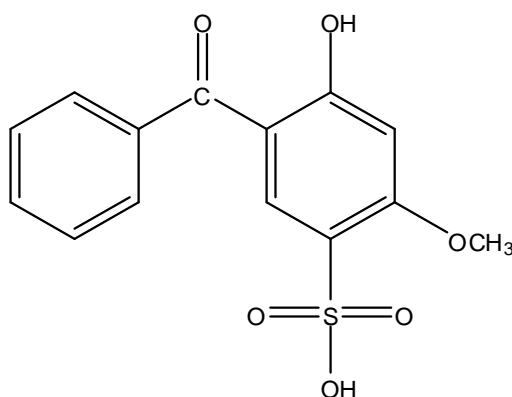
**Quality Products.  
Dependable Service.**

## Chemical Name

2-Hydroxy-4-methoxy-benzophenone-5-sulphonic acid

Synonym: 2-Benzoyl-5-methoxy-1-phenol-4-sulfonic acid

## Chemical Structure



## Introduction

PowerSorb™ 284 is a safe and effective water-soluble UV absorber with broad spectrum absorbance ranging between 270 and 350nm.

## Physical Properties

|  |  |
|--|--|
| CAS No.                                    | 4065-45-6  |
| EC No.                                     | 223-772-2  |
| Formula                                    | C <sub>14</sub> H <sub>12</sub> O <sub>6</sub> S |
| Molecular Weight                           | 308  |
| Bulk Density <sub>[g/cm<sup>3</sup>]</sub> | 0.84   |
| Melting Point(°C)                          | Min.107  |
| Turbidity(NTU)                             | Max.16   |
| Gardner Color                              | Max.4.0  |

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|                               |                  |
|-------------------------------|------------------|
| Heavy Metals(PPM)             | Max.50           |
| Volatile(%)                   | Max.0.2          |
| Specific Extinction 285nm (%) | 460 Min.         |
| Specific Extinction 325nm (%) | 285 Min.         |
| Appearance                    | Off white powder |
| Min. Purity                   | 99.5%            |
| <hr/>                         |                  |
| Solubility (20°C)             | % w/w            |
| Acetone                       | 12               |
| Chloroform                    | <0.5             |
| Ethyl acetate                 | <0.5             |
| n-Hexane                      | <0.5             |
| Methanol                      | 86               |
| Toluene                       | <0.5             |
| Water                         | 38               |

## Applications

PowerSorb™ 284 is neutralized with an appropriate base.

PowerSorb™ 284 can be used as a light stabilizer for water based products such as styling gels, shampoos, shower-gels and alcoholic fragrances.

## 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.

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## Packing

PowerSorb™ 284 is supplied in 25kg carton box.

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