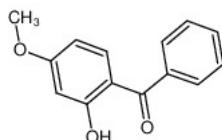


**BENZOPHENONE-3**

Product Name: Benzophenone-3
Product Code: Mfsorb 202
Production Site: Hubei Meikai Chemical Co., Ltd.

Properties

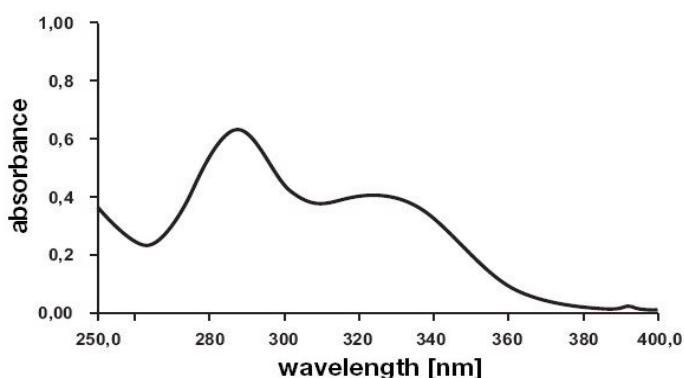
Structure:



Chemical Name: 2-Hydroxy-4-methoxybenzophenone
INCI Name: BENZOPHENONE-3
Other names: Oxybenzone, UV-9, BP-3
CAS No.: 131-57-7
EINECS No.: 205-031-5
Chemical Formula: C₁₄H₁₂O₃
Molecular Weight: 228.24

UV Characteristics

UV Characteristics:

**Physical Property**

Appearance: Pale greenish yellow crystalline powder
Odor: Similar in character and intensity to standard, very slight odor.
Identification: (USP) A. Infrared Absorption <197K>
B. The retention time of the major peak of the Sample solution corresponds to that of the Standard solution, as obtained in the Assay.
Assay (HPLC): (USP) 97.0%~103.0%



Congealing Temperature: (USP)	62.0°C min
Specific Extinction (1%,1cm)	E ₂₈₈ : ≥630
	E ₃₂₅ : ≥410
Melting Point	62.0°C~65.0°C
Loss on Drying:	≤0.20%
Heavy metal (as pb)	≤5ppm
Gardner Color	≤4.0

Chromatographic Purity (HPLC)

Single largest unspecified impurity:	0.10% max
Total Impurities:	1.0% max

Benzophenone-1: 0.2% max

Residual Solvents: (USP) Ethanol: 5000ppm max

Application

Benzophenone-3 is an UV absorber. Used in topical sunscreens, moisturizers, shampoos, hair care products, lipstick, lip balms, nail polish, plastic materials, dental composite materials. It is also used as color preserver in paints and varnishes.

Packaging

25kgs/drum, 25kgs/carton

Storage

Preserve in tight, light-resistant containers. The shelf life of Benzophenone-3 is four years in original, unopened containers.

HS Code

2914502000

NOTE

The data submitted in this publication are based on our current knowledge and experience. They do not constitute a guarantee in the legal sense of the term and, in view of the manifold factors that may affect processing and application, do not relieve those to whom we supply our products from the responsibility of carrying out their own tests and experiments. Any relevant patent rights and existing legislation and regulations must be observed.