

**TECHNICAL DATA SHEET****Product Name****GalSORB Benzophenone-3****DESCRIPTION**

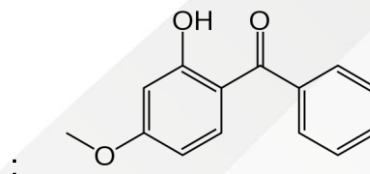
Chemical Name : 2-Hydroxy-4-methoxybenzophenone

INCI Name : Benzophenone-3

CAS Number : 131-57-7

EINECS Number : 205-031-5

Chemical structure

**TECHNICAL SPECIFICATIONS**

Appearance/nature : Light yellowish crystalline powder

Odour : Faint, characteristic

Identification

a) by IR : The IR absorption spectrum of the sample should match that of the reference

b) Absorptivities at 287 nm, calculated on the: 3.0  
dried basis, % difference not more than

Congealing temperature, °C, not lower than : 62.0

Loss on drying, % w/w, not more than : 2

## GalSORB Benzophenone-3

### TECHNICAL DATA SHEET

Chromatographic purity (by GC)

a) Individual impurities, %, not more than	: 0.10
b) Total impurities, %, not more than	: 1.0
Assay, %	: 95 – 103

### PROPERTIES

Solubility (at 5 % solution using the desired solvent)	: Soluble in Isopropyl Myristate, Ethyl alcohol, Isopropyl alcohol, Acetone and Ethyl Acetate Insoluble in water, Propylene Glycol and Mineral oil
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**GalSORB Benzophenone-3** is an oil soluble sunscreen agent. It provides UV-B absorption as well as some absorption in UV-A region (320-340 nm).

### APPLICATIONS

**GalSORB Benzophenone-3** being a broad-band UV filter, it can be used in day cream to prevent aging of skin and to protect the lips. To get highest Sun Protection Factor (SPF), a combination of **GalSORB Benzophenone-3** with other oil-soluble UV-filters like Galaxy 2932 is recommended. It is incorporated in the oily phase, particularly polar oils. Non polar oils like liquid paraffin are less suitable as solubilisers for **GalSORB Benzophenone-3** and it can crystallize out of the formulation on prolonged storage.

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**GalSORB Benzophenone-3** can also be used in other applications like:

- As a colourant protector in transparent packaging (the recommended concentration is 0.05 – 0.5%)
- As a stabilizer for fragrance oils in conditioning shampoos and body cleansers
- As a protector of hair against the ill effects of UV radiation in hair gels, shampoos and hair setting lotions, mousses and sprays
- Day creams to prevent premature aging of skin and to protect the lips

It must be noted that **GalSORB Benzophenone-3** is incompatible with Magnesium salts, particularly in W/O type emulsions.

### **PACKING**

**GalSORB Benzophenone-3** is available in 25 kg paper fiber drums. 9 MT can be shipped in palletized 20 ft. full container load.

### **HANDLING AND STORAGE**

Store in a clean, dry place away from sunlight and heat. The container should be kept tightly closed when not in use. In original, sealed containers, the product can be stored for at least 5 years. Avoid ingestion, inhalation and contact with eyes, skin and clothing. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

## GaISORB Benzophenone-3

### TECHNICAL DATA SHEET

Product Name : **GaISORB Benzophenone-3**

Version : 03

Date of issue : 03.01.2011

TDS Updated by : Mr. Sanjay Joshi

Authorised by : Mr. Milind Patil

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