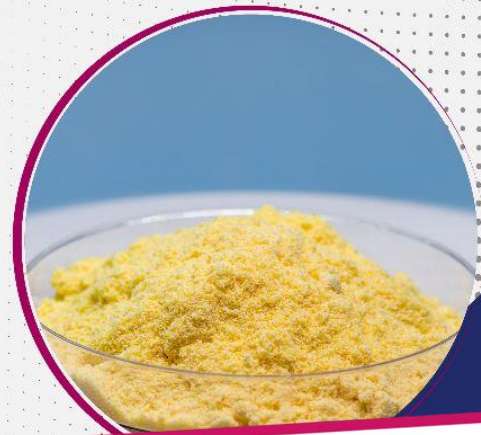
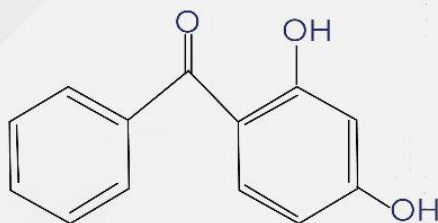


# 2,4-DIHYDROXYBENZOPHENONE



## PRODUCT IN FOCUS



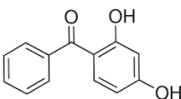
## 2,4-Dihydroxybenzophenone

### INTRODUCTION

2,4-Dihydroxybenzophenone, popular as benzophenone-1 in cosmetic industry, is a highly conjugated bicyclic compound. The conjugation leads to its uses in cosmetic and other industries. It is also a key raw material to produce value-added intermediates as well as agrochemicals.

### Manufacture

The bicyclic ketone is manufactured by Friedel Craft acylation between resorcinol and benzoyl chloride.

|                          |   |
|--------------------------|---|
| <b>Synonyms</b>          | Benzophenone-1<br>(2,4-Dihydroxyphenyl)-phenylmethanone                             |
| <b>CAS no.</b>           | 131-56-6  |
| <b>EINECS no.</b>        | 205-029-4   |
| <b>Molecular formula</b> | C <sub>13</sub> H <sub>10</sub> O <sub>3</sub>                                      |
| <b>Molecular weight</b>  | 214.22  |
| <b>Structure</b>         |  |

### Applications

#### Agrochemicals:

- Ⓢ Fluotrimazole, a fungicide

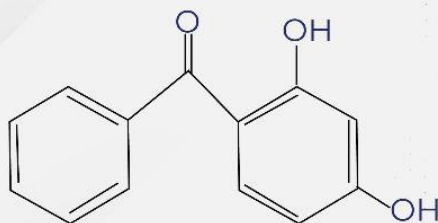
#### Intermediates:

- Ⓢ 2-Hydroxy-4-octyloxybenzophenone (Octabenzene)
- Ⓢ 2-Hydroxy-4-methoxybenzophenone
- Ⓢ 2-Hydroxy-4-dodecoxybenzophenone
- Ⓢ 4-(2-Acryloylolethoxy)-2-hydroxybenzophenone
- Ⓢ 2-Methylacrylic acid-2-(4-benzoyl-3-hydroxyphenoxy)ethyl ester

#### Others:

- Ⓢ in proteomic research
- Ⓢ in cosmetics, used as UV absorber in sun-screening agents
- Ⓢ as light stabilizer in polymers

# 2,4- DIHYDROXYBENZOPHENONE



## PRODUCT IN FOCUS



### SPECIFICATIONS

| Test                 | Unit  | Specification  |
|----------------------|-------|--|
| Appearance           | -     | Yellow powder  |
| Identification by IR | -     | The IR spectrum of the sample should be concordant with that of the reference / working standard |
| Solubility           | -     | Should be freely soluble in methanol   |
| Loss on drying       | % w/w | Max 0.5  |
| Residue on ignition  | %     | Max 0.2  |
| Melting Range        | °C    | 143.0 - 147.0  |
| Related Substances   |       |  |
| - Single impurity    | %     | Max 0.5  |
| - Total impurities   | %     | Max 2.0  |
| Purity               | %     | Min 98.0   |

### STORAGE

Stored at ambient temperature

### PACKING

25 kg UN-approved HDPE drum

### REACH Status

Not registered yet

ExSyn offers 2,4-dihydroxybenzophenone on commercial scales and welcomes enquiries. No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please contact us.