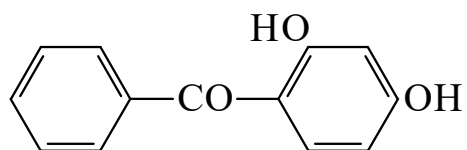




>>Entry Name: **2,4-Dihydroxybenzophenone**, 8CI

Synonym(s): (2,4-Dihydroxyphenyl)phenylmethanone, 9CI. 4-Benzoylresorcinol. Benzoeresorcinol. Visorb 100



CAS Registry Number: 131-56-6

Molecular Formula:  $C_{13}H_{10}O_3$

Molecular Weight: 214.22

Accurate Mass: 214.062995

Percentage Composition: C 72.89%; H 4.70%; O 22.41%

Use/Importance: Light stabiliser for polymers; sunscreen agent. Used as 0.006% soln. in conc.  $H_2SO_4$  for fluorimetric detn. of B ( $\lambda_{max}$  503 nm)

Physical Description: Needles ( $H_2O$ )

Melting Point: Mp 142.6-144.6°

Solubility: Sol. conc.  $H_2SO_4$

Calculated Log P Data: Log P 3.01 (calc)

Hazard & Toxicity: Eye irritant. LD<sub>50</sub> (rat, orl) 7220 mg/kg

Aldrich: 12621-7

Fluka: 37610

Rare Chemicals Library: S10247-4

Sigma: D9400

>>Derivative: Semicarbazone

CAS Registry Number: 106538-73-2

Molecular Formula:  $C_{14}H_{13}N_3O_3$

Molecular Weight: 271.275

Accurate Mass: 271.095692

Percentage Composition: C 61.99%; H 4.83%; N 15.49%; O 17.69%

Use/Importance: Used as EtOH soln. for photometric detn. of Cu(II) ( $\lambda_{max}$  355 nm,  $\epsilon$  11400, acetate buffer medium)

Physical Description: Cryst. (EtOH)

Solubility: Sol. DMF, EtOH

>>Derivative: Di-Ac

CAS Registry Number: 75697-71-1

Molecular Formula:  $C_{17}H_{14}O_5$

Molecular Weight: 298.295

Accurate Mass: 298.084125

Percentage Composition: C 68.45%; H 4.73%; O 26.82%

Physical Description: Prisms

Melting Point: Mp 78°

>>Derivative: 4-Me ether

Synonym(s): (2-Hydroxy-4-methoxyphenyl)methanone, 9CI. 2-Hydroxy-4-methoxybenzophenone. **Oxybenzone**, INN, USAN. Anuvex. Cyasorb UV 9 (obsol.). Eusolex 4360. Spectra-Sorb UV. Uvinul M40. MOB. NSC 7778. Benzophenone 3

CAS Registry Number: 131-57-7

Molecular Formula:  $C_{14}H_{12}O_3$

Molecular Weight: 228.247

Accurate Mass: 228.078645

Percentage Composition: C 73.67%; H 5.30%; O 21.03%

Use/Importance: Ultraviolet sunscreen

Physical Description: Cryst. (2-propanol)

Melting Point: Mp 66°

Calculated Log P Data: Log P 3.58 (calc)

Hazard & Toxicity: Photoallergic skin effects reported. LD<sub>50</sub> (rat, orl) 7400 mg/kg. Exp. reprod. effects

Aldrich: H3620-6

Fluka: 55550

Sigma: H2758