



>>Entry Name: 3,4-Dihydroxybenzophenone, 8Cl

Synonym(s): (3,4-Dihydroxyphenyl)phenylmethanone, 9Cl. 4-Benzoylcatechol

CAS Registry Number: 10425-11-3

Structure by analogy with 2,2'-Dihydroxybenzophenone, [BJS15-N](#)

Molecular Formula: C₁₃H₁₀O₃

Molecular Weight: 214.22

Accurate Mass: 214.062995

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

Physical Description: Prisms + 1H₂O (H₂O)

Melting Point: Mp 134°

pKa Value: pK_a 8.84 (40% dioxan aq.)

>>Derivative: 3-Me ether

Synonym(s): 4-Hydroxy-3-methoxybenzophenone. 4-Benzoyl-2-methoxyphenol. 4-Benzoylguaiacol

CAS Registry Number: 51439-89-5

Molecular Formula: C₁₄H₁₂O₃

Molecular Weight: 228.247

Accurate Mass: 228.078645

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

Physical Description: Pale-yellow cryst. (EtOH)

Melting Point: Mp 131-132°

>>Derivative: Di-Me ether

Synonym(s): 3,4-Dimethoxybenzophenone. Benzoylveratrole

CAS Registry Number: 4038-14-6

Molecular Formula: C₁₅H₁₄O₃

Molecular Weight: 242.274

Accurate Mass: 242.094295

Percentage Composition: C 74.36%; H 5.82%; O 19.81%

Physical Description: Needles (EtOH)

Melting Point: Mp 103-104°

References:

Rosenmund, K.W. *et al.*, *Ber.*, 1928, **61**, 2601, (*synth*)

Phradke, R. *et al.*, *J. Indian Chem. Soc.*, 1950, **27**, 349, (*synth*)

Yamada, F. *et al.*, *Kogyo Kagaku Zasshi*, 1960, **63**, 818; *CA*, **56**, 5550, (*ir*)