



>>Entry Name: 2,4'-Dihydroxybenzophenone, 8Cl

Synonym(s): (2-Hydroxyphenyl)(4-hydroxyphenyl)methanone, 9Cl

CAS Registry Number: 606-12-2

Related CAS Registry Numbers(s): 18733-07-8 72090-61-0

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: Plates (H₂O)

Melting Point: Mp 150-151°

>>Derivative: 2-Ac

Molecular Formula: C₁₅H₁₂O₄

Molecular Weight: 256.257

Accurate Mass: 256.07356

Percentage Composition: C 70.31%; H 4.72%; O 24.97%

Physical Description: Needles (petrol/Et₂O)

Melting Point: Mp 125-126°

>>Derivative: Di-Ac

Molecular Formula: C₁₇H₁₄O₅

Molecular Weight: 298.295

Accurate Mass: 298.084125

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

Physical Description: Needles (H₂O)

Melting Point: Mp 84-85°

>>Derivative: Di-Me ether

Synonym(s): 2,4'-Dimethoxybenzophenone

CAS Registry Number: 5449-69-4

Molecular Formula: C₁₅H₁₄O₃

Molecular Weight: 242.274

Accurate Mass: 242.094295

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

Melting Point: Mp 99-100°

References:

Baeyer, A., *Annalen*, 1907, **354**, 177, (*synth*)

Kishore, R. *et al.*, *J. Indian Chem. Soc.*, 1951, **28**, 72, (*synth*)

Ballantine, J.A. *et al.*, *Org. Mass Spectrom.*, 1968, **1**, 425, (*ms*)

Adam, W. *et al.*, *Chem. Ber.*, 1992, **125**, 2455, (*2-Ac*)