>>**Entry Name: 4,4'-Dihydroxybenzoin**
Synonym(s): 2-Hydroxy-1,2-bis(4-hydroxyphenyl)ethanone, 9CI

CAS Registry Number: 7424-55-7
Structure by analogy with 2,2'-Dihydroxybenzoin, MMJ31-I

Molecular Formula: $C_{14}H_{12}O_4$
Molecular Weight: 244.246
Accurate Mass: 244.07356
Percentage Composition: C 68.85%; H 4.95%; O 26.20%

>>**Variant:** (±)-form

Molecular Formula: $C_{14}H_{12}O_4$
Molecular Weight: 244.246
Accurate Mass: 244.07356
Percentage Composition: C 68.85%; H 4.95%; O 26.20%

>>**Derivative:** 4,4'-Di-Me ether
Synonym(s): 2-Hydroxy-1,2-bis(4-methoxyphenyl)ethanone, 9CI. *p*-Anisoin, 8CI. *p,p'*-Dimethoxybenzoin

CAS Registry Number: 119-52-8
Molecular Formula: $C_{16}H_{16}O_4$
Molecular Weight: 272.3
Accurate Mass: 272.10486
Percentage Composition: C 70.58%; H 5.92%; O 23.50%
Physical Description: Prisms (EtOH)
Melting Point: Mp 113°
Aldrich: A8840-9
Fluka: 10510

>>**Derivative:** 4,4'-Di-Me ether, semicarbazone

Physical Description: Prisms (EtOH aq.)
Melting Point: Mp 185 dec.°

>>**Derivative:** 4,4'-Di-Me ether, Ac

CAS Registry Number: 1678-44-0
Molecular Formula: $C_{18}H_{18}O_5$
Molecular Weight: 314.337
Accurate Mass: 314.115425
Percentage Composition: C 68.78%; H 5.77%; O 25.45%
Melting Point: Mp 93.5°

>>**Derivative:** Tri-Me ether
Synonym(s): 2-Methoxy-1,2-bis(4-methoxyphenyl)ethanone

CAS Registry Number: 65564-55-8
Molecular Formula: $C_{17}H_{18}O_4$
Molecular Weight: 286.327
Accurate Mass: 286.12051
Percentage Composition: C 71.31%; H 6.34%; O 22.35%
Physical Description: Yellow prisms (CCl_4)
Melting Point: Mp 52-53°

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