



>>Entry Name: 1,5-Bis(4-hydroxyphenyl)-1,4-pentadien-3-one

Synonym(s): 4,4'-Dihydroxystyryl ketone. Di(*p*-hydroxybenzylidene)acetone



CAS Registry Number: 3654-49-7

Molecular Formula: C₁₇H₁₄O₃

Molecular Weight: 266.296

Accurate Mass: 266.094295

Percentage Composition: C 76.68%; H 5.30%; O 18.02%

General Statement: Two forms known

>>Variant: Stable-form

Molecular Formula: C₁₇H₁₄O₃

Molecular Weight: 266.296

Accurate Mass: 266.094295

Percentage Composition: C 76.68%; H 5.30%; O 18.02%

Physical Description: Orange-yellow leaflets or needles (EtOH aq.)

Melting Point: Mp 237-238°

Other Data: Orange-red soln. in alkalis

>>Derivative: Di-Ac

Molecular Formula: C₂₁H₁₈O₅

Molecular Weight: 350.37

Accurate Mass: 350.115425

Percentage Composition: C 71.99%; H 5.18%; O 22.83%

Physical Description: Yellowish needles (EtOH)

Melting Point: Mp 165-166°

>>Derivative: Di-Me ether

Synonym(s): Dianisalacetone. Dianisylideneacetone

CAS Registry Number: 2051-07-2

Molecular Formula: C₁₉H₁₈O₃

Molecular Weight: 294.349

Accurate Mass: 294.125595

Percentage Composition: C 77.53%; H 6.16%; O 16.31%

Physical Description: Yellow leaflets (EtOAc)

Melting Point: Mp 129-130°

Aldrich: 38419-4

Rare Chemicals Library: S34851-1

>>Variant: Labile-form

Molecular Formula: C₁₇H₁₄O₃

Molecular Weight: 266.296

Accurate Mass: 266.094295

Percentage Composition: C 76.68%; H 5.30%; O 18.02%

Physical Description: Green leaflets

Other Data: Heat at 145° → stable form. Orange solns. in alkalis from which min. acids precipitate the stable form

References:

McGookin, A. *et al.*, *J.C.S.*, 1928, 1175, (*synth*)

Vorländer, D. *et al.*, *Ber.*, 1929, **62**, 534, (*synth*)

Org. Synth., *Coll. Vol.*, 1, 1932, 71, (*deriv*)

Wittmann, H., *Monatsh. Chem.*, 1963, **94**, 686, (*synth*)

Borden, D.G. *et al.*, *J. Appl. Polym. Sci.*, 1978, **22**, 239

ten Hoeve, W. *et al.*, *J.O.C.*, 1979, **44**, 1508, (*deriv*)