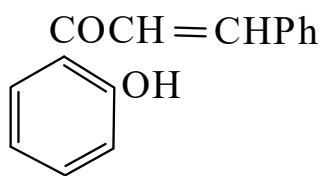




>>Entry Name: 1-(2-Hydroxyphenyl)-3-phenyl-2-propen-1-one, 9CI

Synonym(s): 2'-Hydroxychalcone, 8CI. ω-Benzylidene-2-hydroxyacetophenone. o-Hydroxyphenyl styryl ketone



CAS Registry Number: 1214-47-7

Molecular Formula: C₁₅H₁₂O₂

Molecular Weight: 224.259

Accurate Mass: 224.08373

Percentage Composition: C 80.34%; H 5.39%; O 14.27%

Fluka: 56165

Rare Chemicals Library: S10250-4

>>Variant: (E)-form

CAS Registry Number: 40524-64-9

Molecular Formula: C₁₅H₁₂O₂

Molecular Weight: 224.259

Accurate Mass: 224.08373

Percentage Composition: C 80.34%; H 5.39%; O 14.27%

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 88-89°

>>Derivative: Me ether

CAS Registry Number: 40524-62-7

Molecular Formula: C₁₆H₁₄O₂

Molecular Weight: 238.285

Accurate Mass: 238.09938

Percentage Composition: C 80.65%; H 5.92%; O 13.43%

Physical Description: Yellow oil

Boiling Point: Bp_{11.5} 226°

References:

- v. Auwers, K. *et al.*, *Annalen*, 1932, **493**, 218, (*synth*)
Miquel, J.F., *C. R. Hebd. Seances Acad. Sci.*, 1962, **254**, 4479, (*uv, struct*)
Dhar, D.H. *et al.*, *Indian J. Chem.*, 1971, **9**, 818, (*ir*)
Orlov, V.D. *et al.*, *Zh. Obshch. Khim.*, 1973, **43**, 642, (*uv*)
Gao, F. *et al.*, *J.C.S. Perkin 2*, 1996, 269, (*Me ether, synth, pmr, cmr, ir*)