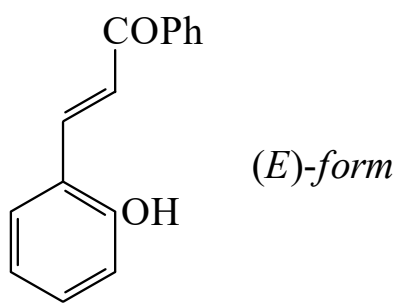




>>Entry Name: 3-(2-Hydroxyphenyl)-1-phenyl-2-propen-1-one, 9CI

Synonym(s): 2-Hydroxychalcone, 8CI. ω-*o*-Hydroxybenzylideneacetophenone. 2-Hydroxystyryl phenyl ketone. ω-Salicylideneacetophenone



CAS Registry Number: 644-78-0

Molecular Formula: C₁₅H₁₂O₂

Molecular Weight: 224.259

Accurate Mass: 224.08373

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

Use/Importance: Used as 0.5% EtOH soln. for specific gravimetric detn. of Be (orange-yellow ppt., pH 8-9)

>>Variant: (*E*)-form

CAS Registry Number: 42224-53-3

Molecular Formula: C₁₅H₁₂O₂

Molecular Weight: 224.259

Accurate Mass: 224.08373

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

Melting Point: Mp 153 dec.°

>>Variant: (*Z*)-form

CAS Registry Number: 99618-45-8

Molecular Formula: C₁₅H₁₂O₂

Molecular Weight: 224.259

Accurate Mass: 224.08373

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

Melting Point: Mp 159°

References:

Miquel, J.F., *C. R. Hebd. Seances Acad. Sci.*, 1962, **254**, 4479-4481, (*uv*)

Fournari, P. *et al.*, *Bull. Soc. Chim. Fr.*, 1967, 2673-2677, (*synth*)

Truce, W.E. *et al.*, *J.A.C.S.*, 1973, **95**, 4426-4429, (*E-form*)

Naidu, R.R., *Talanta*, 1975, **22**, 614, (*synth, use*)