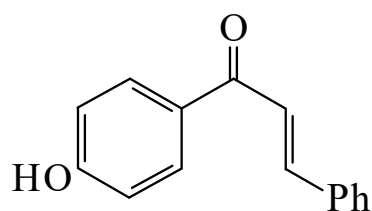




>>Entry Name: 1-(4-Hydroxyphenyl)-3-phenyl-2-propen-1-one, 9CI

Synonym(s): 4'-Hydroxychalcone, 8CI. *p*-Hydroxyphenyl styryl ketone



CAS Registry Number: 2657-25-2

Related CAS Registry Numbers(s): 30925-53-2 38239-52-0 102692-58-0

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 aq.)

Melting Point: Mp 172-173°

>>Derivative: *O*-β-D-Glucopyranoside

CAS Registry Number: 82784-43-8

Molecular Formula: C₂₁H₂₂O₇

Molecular Weight: 386.401

Accurate Mass: 386.136555

Percentage Composition: C 65.28%; H 5.74%; O 28.98%

Biological Source: Isol. from heartwood of *Shorea robusta*

Melting Point: Mp 191-193°

>>Derivative: Ac

CAS Registry Number: 57558-83-5

Molecular Formula: C₁₇H₁₄O₃

Molecular Weight: 266.296

Accurate Mass: 266.094295

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

Melting Point: Mp 90°

>>Derivative: Me ether

Synonym(s): 4'-Methoxychalcone

CAS Registry Number: 22966-19-4

Extra CAS Registry Numbers(s): 959-23-9

Molecular Formula: C₁₆H₁₄O₂

Molecular Weight: 238.285

Accurate Mass: 238.09938

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

Biological Source: Reported to occur in *Citrus limon* (unsubstantiated)

Physical Description: Needles (MeOH)

Melting Point: Mp 107°

References:

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Dinya, Z. *et al.*, *Acta Chim. Acad. Sci. Hung.*, 1972, **73**, 453-467, (*ir*)
Jain, A. *et al.*, *Phytochemistry*, 1982, **21**, 957, (*glycoside*)
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Sasse, A. *et al.*, *Arch. Pharm. (Weinheim, Ger.)*, 2001, **334**, 45-52, (*synth, pmr*)