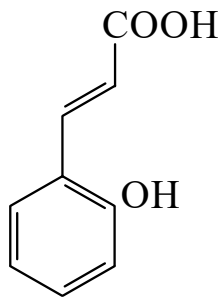
>>**Entry Name: 3-(2-Hydroxyphenyl)-2-propenoic acid,** 9CI
Synonym(s): *o*-Hydroxycinnamic acid, 8CI. *o*-Cumaric acid. *o*-Coumaric acid



(*E*)-*form*

CAS Registry Number: 583-17-5
Related CAS Registry Numbers(s): 6099-03-2 69038-81-9

Molecular Formula: $C_9H_8O_3$
Molecular Weight: 164.16
Accurate Mass: 164.047345
Percentage Composition: C 65.85%; H 4.91%; O 29.24%
Use/Importance: Used as a 1% soln. in EtOH as a fluorescence acid-base indicator (pH range 7.2-9.0; colour change: non-fluoresc. → green)
pKa Value: pK_{a1} 3.7 (30°, 1.0*M* LiCl)

>>**Variant:** (*E*)-form

CAS Registry Number: 614-60-8

Molecular Formula: $C_9H_8O_3$
Molecular Weight: 164.16
Accurate Mass: 164.047345
Percentage Composition: C 65.85%; H 4.91%; O 29.24%
Biological Source: Occurs in many plants e.g. *Melilotus officinalis* and *Angraecum fragrans*
Use/Importance: Intermed. in biosynth. of coumarins
Physical Description: Needles (H_2O)
Melting Point: Mp 207-208 dec.°
Solubility: Sol. EtOH, hot H_2O, Et_2O; insol. CS_2, $CHCl_3$
pKa Value: pK_a 4.61
Other Data: Nonvolatile in steam. Dec. on dist.
Hazard & Toxicity: LD_{50} (mus, ivn) 180 mg/kg

Aldrich: H2280-9
Fluka: 28170
Sigma: C4400

>>**Derivative:** Ac

Molecular Formula: $C_{11}H_{10}O_4$
Molecular Weight: 206.198
Accurate Mass: 206.05791
Percentage Composition: C 64.07%; H 4.89%; O 31.04%
Melting Point: Mp 149°

>>**Derivative:** Me ether
Synonym(s): 3-(2-Methoxyphenyl)-2-propenoic acid. *o*-Methoxycinnamic acid. *O*-Methyl-*o*-coumaric acid

CAS Registry Number: 1011-54-7
Molecular Formula: $C_{10}H_{10}O_3$
Molecular Weight: 178.187
Accurate Mass: 178.062995
Percentage Composition: C 67.41%; H 5.66%; O 26.94%
Melting Point: Mp 185-186°
pKa Value: pK_a 4.78 (25°)
Fluka: 65400