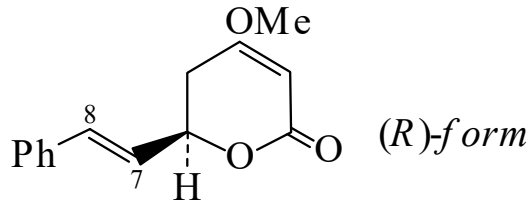
>>**Entry Name: Kawain**
Synonym(s): 5,6-Dihydro-4-methoxy-6-(2-phenylethenyl)-2*H*-pyran-2-one, 9CI. Kavain



(*R*)-*form*

Related CAS Registry Numbers(s): 19451-52-6 19902-90-0 24576-85-0 73536-68-2

Molecular Formula: $C_{14}H_{14}O_3$
Molecular Weight: 230.263
Accurate Mass: 230.094295
Percentage Composition: C 73.03%; H 6.13%; O 20.84%
Use/Importance: Anaesthetic. Antiinflammatory, antipyretic agent. Shows muscle relaxant props.
Calculated Log P Data: Log P 1.85 (calc)

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

CAS Registry Number: 500-64-1
Molecular Formula: $C_{14}H_{14}O_3$
Molecular Weight: 230.263
Accurate Mass: 230.094295
Percentage Composition: C 73.03%; H 6.13%; O 20.84%
Biological Source: Occurs in the roots of *Piper methysticum*
Physical Description: Prisms (Et_2O/MeOH)
Melting Point: Mp 106° (110°)
Boiling Point: $Bp_{0.1}$ 195-197°
Optical Rotation: $[\alpha]_D^{20}$+105 (EtOH)
Solubility: BERDY SOL: Sol. MeOH, Et_2O; fairly sol. hexane; poorly sol. H_2O
UV: [neutral] λ_{max} 245 (ε 25500) (EtOH) (Berdy)
Hazard & Toxicity: LD_{50} (mus, orl) 1130 mg/kg

>>**Derivative:** 7,8-Dihydro
Synonym(s): Marindinin. Dihydrokawain

CAS Registry Number: 587-63-3

Molecular Formula: $C_{14}H_{16}O_3$
Molecular Weight: 232.279
Accurate Mass: 232.109945
Percentage Composition: C 72.39%; H 6.94%; O 20.66%
Biological Source: Isol. from Kawa root (*Piper methysticum*) and *Aniba giganticola*
Use/Importance: Anaesthetic, antiinflammatory, antipyretic agent. Shows muscle relaxant props.
Physical Description: Prisms (Et_2O/petrol)
Melting Point: Mp 56-60°
Optical Rotation: $[\alpha]_D^{19}$+30 (EtOH)
Calculated Log P Data: Log P 2.15 (calc)
Other Data: Has (*S*)-config. (change of Cahn-Ingold-Prelog priorities)
Hazard & Toxicity: LD_{50} (mus, orl) 920 mg/kg

>>**Variant:** (±)-form

CAS Registry Number: 3155-48-4
Molecular Formula: $C_{14}H_{14}O_3$
Molecular Weight: 230.263
Accurate Mass: 230.094295
Percentage Composition: C 73.03%; H 6.13%; O 20.84%
Physical Description: Cryst. (EtOAc/petrol, THF or Et_2O/MeOH)
Melting Point: Mp 146-147°

>>**Derivative:** 7,8-Dihydro

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