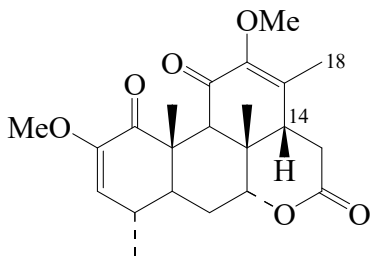
>>**Entry Name: Quassin**
Synonym(s): Nigakilactone D



CAS Registry Number: 76-78-8

Molecular Formula: $C_{22}H_{28}O_6$
Molecular Weight: 388.46
Accurate Mass: 388.18859
Percentage Composition: C 68.02%; H 7.26%; O 24.71%
Biological Source: Bitter constit. of *Quassia amara, Picrasma excelsa* and *Ailanthus glandulosa*
Biological Use/Importance: Shows insecticidal activity. Antiamoebic agent
Physical Description: Cryst. (MeOH aq.)
Melting Point: Mp 221-222°
Optical Rotation: $[\alpha]_D^{20}$+34.5 (c, 5.09 in $CHCl_3$)
Calculated Log P Data: Log P 0.5 (uncertain value) (calc)
UV: [neutral] λ_{max} 255 (ε 11650) (MeOH) (Derep)

>>**Derivative:** 18-Hydroxy
Synonym(s): 18-Hydroxyquassin

Molecular Formula: $C_{22}H_{28}O_7$
Molecular Weight: 404.459
Accurate Mass: 404.183505
Percentage Composition: C 65.33%; H 6.98%; O 27.69%
Biological Source: Isol. from coml. Quassin
Physical Description: Cryst. (EtOAc)
Melting Point: Mp 232-233°
Optical Rotation: $[\alpha]_D^{20}$+24 (c, 1 in $CHCl_3$)

>>**Derivative:** 14-Epimer
Synonym(s): Isoquassin. Picrasmin

Molecular Formula: $C_{22}H_{28}O_6$
Molecular Weight: 388.46
Accurate Mass: 388.18859
Percentage Composition: C 68.02%; H 7.26%; O 24.71%
Biological Source: Isol. from *Aeschrion excelsa*
Biological Use/Importance: Shows insecticidal activity
Physical Description: Plates and rods (MeOH aq.)
Melting Point: Mp 222-225°
Optical Rotation: $[\alpha]_D^{20}$+46.6 ($CHCl_3$)
Calculated Log P Data: Log P 0.5 (uncertain value) (calc)

>>**Derivative:** 1α-Alcohol, Me ether
Synonym(s): 1α-*O*-Methylquassin

Molecular Formula: $C_{23}H_{32}O_6$
Molecular Weight: 404.502
Accurate Mass: 404.21989
Percentage Composition: C 68.29%; H 7.97%; O 23.73%
Biological Source: Constit. of *Quassia amara*
Physical Description: Powder (MeOH)
Melting Point: Mp 168-172°

References: