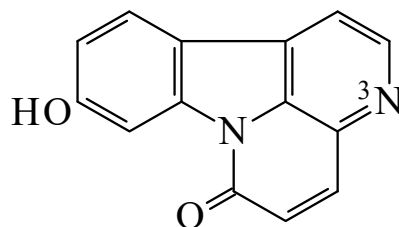




>>Entry Name: 9-Hydroxycanthin-6-one

Synonym(s): 9-Hydroxy-6*H*-indolo[3,2,1-*de*][1,5]naphthyridin-6-one, 9Cl



CAS Registry Number: 138544-91-9

Molecular Formula: C₁₄H₈N₂O₂

Molecular Weight: 236.229

Accurate Mass: 236.058578

Percentage Composition: C 71.18%; H 3.41%; N 11.86%; O 13.55%

Biological Source: Alkaloid from the wood of *Simaba multiflora*, from the roots of *Eurycoma longifolia* and from stems of *Picrolemma granatensis* (Simaroubaceae)

Physical Description: Yellow needles

Melting Point: Mp 288-293° (285-286°)

UV: [neutral] λ_{max} 274 (ε 16000); 310 (ε 10800); 352 (ε 13400) (MeOH) (Berdy)

Other Data: The nat. prod. from *S. multiflora* has been reassigned this struct. by Kardono, *et al*

>>Derivative: *N*³-Oxide

Synonym(s): 9-Hydroxycanthin-6-one *N*³-oxide

CAS Registry Number: 137739-75-4

Molecular Formula: C₁₄H₈N₂O₃

Molecular Weight: 252.229

Accurate Mass: 252.053493

Percentage Composition: C 66.67%; H 3.20%; N 11.11%; O 19.03%

Biological Source: Alkaloid from the roots of *Eurycoma longifolia* (Simaroubaceae)

Physical Description: Red needles

Melting Point: Mp 248-250 dec.°

UV: [neutral] λ_{max} 230 (ε 33000); 289 (ε 3200); 360 (ε 19500); 417 (ε 1200) (MeOH) (Berdy)

>>Derivative: *O*-β-D-Glucopyranoside

Molecular Formula: C₂₀H₁₈N₂O₇

Molecular Weight: 398.371

Accurate Mass: 398.111403

Percentage Composition: C 60.30%; H 4.55%; N 7.03%; O 28.11%

Biological Source: Alkaloid from the roots of *Eurycoma harmandiana*

Physical Description: Amorph. yellow powder

UV: [neutral] λ_{max} 285 (log ε 3.16); 321 (log ε 3.14); 367 (log ε 3.22) (MeOH/HCl)

>>Derivative: Me ether

Synonym(s): 9-Methoxycanthin-6-one. 9-Methoxy-6*H*-indolo[3,2,1-*de*][1,5]naphthyridin-6-one, 9Cl. 8-Methoxycanthin-6-one (incorr.)

CAS Registry Number: 74991-91-6

Molecular Formula: C₁₅H₁₀N₂O₂

Molecular Weight: 250.256

Accurate Mass: 250.074228

Percentage Composition: C 71.99%; H 4.03%; N 11.19%; O 12.79%

Biological Source: Alkaloid from the trunk bark of *Simaba cuspidata*, the stem bark of *Simaba multiflora* and stems and stem bark of *Picrolemma granatensis* (Simaroubaceae)

Physical Description: Yellow cryst. (EtOH)

Melting Point: Mp 178-180°

UV: [neutral] λ_{max} 272 (ε 33800); 307 (ε 8700); 355 (ε 1400) (MeOH) (Berdy) [acid] λ_{max} 278 (ε 25000); 320 (ε 12000); 380 (ε 18700) (MeOH-HCl) (Berdy)