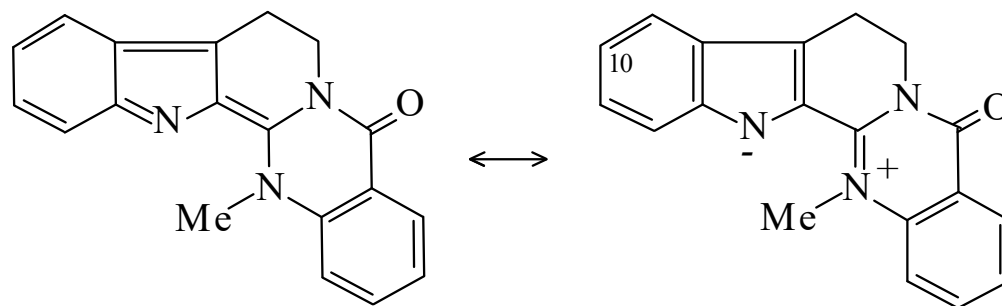




>>Entry Name: Dehydroevodiamine

Synonym(s): 5,7,8,13-Tetrahydro-14-methyl-5-oxoindolo[2',3':3,4]pyrido[2,1-*b*]quinazolinium hydroxide, inner salt, 9Cl. 13,13*b*-Dehydroevodiamine



CAS Registry Number: 67909-49-3

Molecular Formula: C<sub>19</sub>H<sub>15</sub>N<sub>3</sub>O

Molecular Weight: 301.347

Accurate Mass: 301.121512

Percentage Composition: C 75.73%; H 5.02%; N 13.94%; O 5.31%

Biological Source: Alkaloid from the unripe fruit of *Evodia rutaecarpa* (Rutaceae)

Melting Point: Mp 189°

>>Derivative: Hydrochloride

Physical Description: Yellow cryst. + 1qu; H<sub>2</sub>O

Melting Point: Mp 208-209°

>>Derivative: 10-Methoxy

Synonym(s): Hortiamine. 8,14-Dihydro-10-methoxy-14-methylindolo[2',3':3,4]pyrido[2,1-*b*]quinazolin-5(7*H*)-one, 9Cl

CAS Registry Number: 477-40-7

Molecular Formula: C<sub>20</sub>H<sub>17</sub>N<sub>3</sub>O<sub>2</sub>

Molecular Weight: 331.373

Accurate Mass: 331.132077

Percentage Composition: C 72.49%; H 5.17%; N 12.68%; O 9.66%

Biological Source: Alkaloid from the bark of *Hortia arborea* and *Hortia braziliانا* (Rutaceae)

Use/Importance: Hypotensive agent

Physical Description: Red-orange needles (C<sub>6</sub>H<sub>6</sub> or CHCl<sub>3</sub>/C<sub>6</sub>H<sub>6</sub>)

Melting Point: Mp 209 dec.°

>>Derivative: 10-Methoxy; hydrochloride

Physical Description: Cryst. + 1H<sub>2</sub>O (EtOH aq.)

Melting Point: Mp 243 dec.°

Other Data: Sublimation at 230-270°/0.5 mm yields Hortiacine [CDF87-S](#)

>>Derivative: 10-Methoxy; methiodide

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 208-209°

References:

Pachter, I.J. *et al.*, *J.A.C.S.*, 1960, **82**, 5187; 1961, **83**, 535, (*isol, uv, struct, synth, Hortiamine*)

Danieli, B. *et al.*, *Heterocycles*, 1978, **9**, 803, (*synth*)

King, C.L. *et al.*, *J. Nat. Prod.*, 1980, **43**, 577, (*isol, ir, pmr*)

Bergman, J. *et al.*, *J.O.C.*, 1985, **50**, 1246, (*synth*)