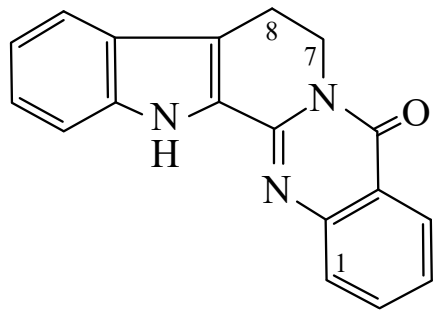
>>**Entry Name: Rutaecarpine**
Synonym(s): 8,13-Dihydroindolo[2',3':3,4]pyrido[2,1-*b*]quinazolin-5(7*H*)-one, 9CI. Rhetine. Rutecarpine



CAS Registry Number: 84-26-4

Molecular Formula: $C_{18}H_{13}N_3O$
Molecular Weight: 287.32
Accurate Mass: 287.105862
Percentage Composition: C 75.25%; H 4.56%; N 14.62%; O 5.57%
Biological Source: A major component of the Chinese drug Wou-chou-yu (the dried fruit of *Evodia rutaecarpa*). Also isol. from the bark of *Hortia arborea* and *Hortia badinii* , and from the root wood of *Zanthoxylum integrifoliolum* (Rutaceae)
Biological Use/Importance: Antihypertensive agent. *Evodia rutaecarpa* is used in Chinese medicine against headache, abdominal pain, dysentery and cholera. Vasodilator
Physical Description: Cryst. (EtOAc, C_6H_6, EtOH or AcOH)
Melting Point: Mp 259.5-260°
Calculated Log P Data: Log P 2.57 (calc)
UV: [neutral] λ_{max} 278 (); 290 (); 332 (); 345 (); 364 () (MeOH) (Berdy)

>>**Derivative:** 7,8-Didehydro
Synonym(s): 7,8-Dehydrorutaecarpine

CAS Registry Number: 55786-24-8

Molecular Formula: $C_{18}H_{11}N_3O$
Molecular Weight: 285.304
Accurate Mass: 285.090212
Percentage Composition: C 75.78%; H 3.89%; N 14.73%; O 5.61%
Biological Source: Alkaloid from *Phellodendron amurense*
Physical Description: Pale yellow powder
UV: [neutral] λ_{max} 217 (log ε 4.52); 250 (log ε 4.49); 281 (log ε 4.31); 330 (log ε 4.42); 348 (log ε 4.38); 368 (log ε 4.43); 390 (log ε 4.42) (MeOH)

>>**Derivative:** 1-Hydroxy
Synonym(s): 1-Hydroxyrutaecarpine

CAS Registry Number: 53600-24-1

Molecular Formula: $C_{18}H_{13}N_3O_2$
Molecular Weight: 303.32
Accurate Mass: 303.100777
Percentage Composition: C 71.28%; H 4.32%; N 13.85%; O 10.55%
Biological Source: Minor alkaloid from the bark of *Euxylophora paraënsis* and the stem bark of *Vepris louisii* (Rutaceae)
Physical Description: Pale yellow needles ($CHCl_3$/MeOH)
Melting Point: Mp 318-320°

>>**Derivative:** 1-Hydroxy, hydrochloride

Physical Description: Yellow needles (MeOH/$CHCl_3$)
Melting Point: Mp 326-328°