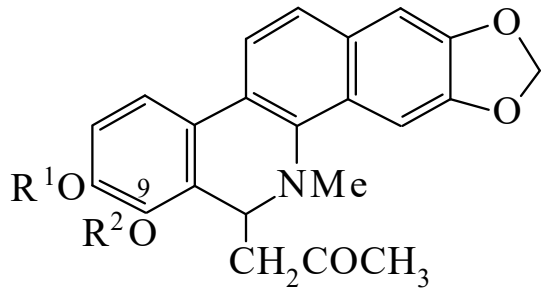
>>**Entry Name: 8-Acetonyldihydrochelerythrine**

Synonym(s): 12,13-Dihydro-1,2-dimethoxy-12-methyl-13-(2-oxopropyl)-1,3-benzodioxolo[5,6-*c*]phenanthridine, $_{9Cl}$. 13-Acetonyl-12,13-dihydrochelerythrine, $_{8Cl}$. 11-Acetonyldihydrochelerythrine. Alkaloid ZT_1. 6-Acetonyldihydrochelerythrine



$R^1 = R^2 = Me$

CAS Registry Number: 22864-92-2

Molecular Formula: $C_{24}H_{23}NO_5$
Molecular Weight: 405.449
Accurate Mass: 405.157624
Percentage Composition: C 71.10%; H 5.72%; N 3.45%; O 19.73%
General Statement: Probably an artifact. Numbering systems vary
Biological Source: Alkaloid from the root bark of *Toddalia aculeata* and *Xylocarpus granatum*, and from the bark of *Zanthoxylum conspersipunctatum* and *Zanthoxylum tsihanimposa*. Also obt. by the base-catalysed addn. of acetone to Chelerythrine (Rutaceae, Meliaceae)
Physical Description: Plates (Me_2CO)
Melting Point: Mp 199° (190-192°, 194-195°)

>>**Derivative:** O^9-De-Me

Synonym(s): *O*-Desmethyldihydrochelerithrinyl-8-acetone. *O*-Desmethyldihydrochelerithrinyl-11-acetone. Alkaloid ZT_3

Molecular Formula: $C_{23}H_{21}NO_5$
Molecular Weight: 391.423
Accurate Mass: 391.141974
Percentage Composition: C 70.58%; H 5.41%; N 3.58%; O 20.44%
Biological Source: Isol. from the bark of *Zanthoxylum tsihanimposa* (Rutaceae)
Physical Description: Cryst. (MeOH)
Melting Point: Mp 201-205°
Other Data: Opt. inactive, prob. an artifact

References:

Desai, P.D. *et al.*, *Indian J. Chem.*, 1967, **5**, 41, *(uv, ir, pmr, ms, struct)*
MacLean, D.B. *et al.*, *Can. J. Chem.*, 1969, **47**, 1951, *(synth, ir, pmr, ms)*
Corrie, J.E.T. *et al.*, *Aust. J. Chem.*, 1970, **23**, 133, *(synth, uv, ir, ms)*
Krajniak, E.R. *et al.*, *Aust. J. Chem.*, 1973, **26**, 687, *(isol)*
Decaudain, N. *et al.*, *Phytochemistry*, 1974, **13**, 505, *(deriv)*
Chou, F.Y. *et al.*, *Heterocycles*, 1977, **7**, 969, *(occur)*
Sharma, P.N. *et al.*, *Phytochemistry*, 1981, **20**, 2781, *(isol)*