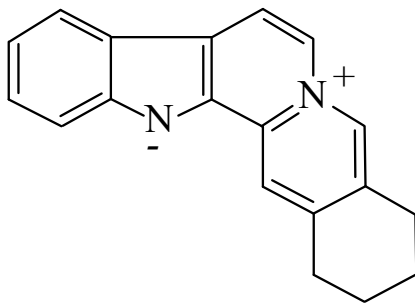




>>Entry Name: Sempervirine

Synonym(s): 2,3,4,13-Tetrahydro-1*H*-benz[*g*]indolo[2,3-*a*]quinolizin-6-ium, 9Cl. Sempervine



CAS Registry Number: 6882-99-1

Molecular Formula: C₁₉H₁₆N₂

Molecular Weight: 272.349

Accurate Mass: 272.131348

Percentage Composition: C 83.79%; H 5.92%; N 10.29%

Biological Source: Alkaloid from *Gelsemium sempervirens* (Loganiaceae)

Biological Use/Importance: Shows antitumour props. Intercalating agent

Melting Point: Mp 258-260° (223°, 254°)

Solubility: BERDY SOL: Sol. EtOH, CHCl₃, Py; poorly sol. C₆H₆, Et₂O

UV: [neutral] λ_{max} 243 (ε 38020); 249 (ε 37150); 345 (ε 18200); 387 (ε 17380); 9297 (); 15850 () (MeOH) (Berdy)

>>Derivative: Hydrochloride

pKa Value: pK_a 10.6 (18°)

>>Derivative: Hydrobromide

Melting Point: Mp 322-324°

>>Derivative: Nitrate

Melting Point: Mp 267 dec.°

References:

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Woodward, R.B. *et al.*, *J.A.C.S.*, 1949, **71**, 379, (*struct, synth*)
Kline, G.B., *J.A.C.S.*, 1959, **81**, 2251, (*synth*)
Potts, K.T. *et al.*, *J.O.C.*, 1968, **33**, 3985, (*synth, ir*)
Beljanski, M. *et al.*, *Oncology*, 1986, **43**, 198; *CA*, **105**, 54186v, (*pharmacol*)
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