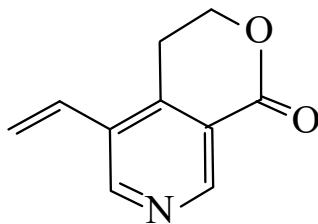




>>Entry Name: Gentianine

Synonym(s): 5-Ethenyl-3,4-dihydro-1*H*-pyrano[3,4-*c*]pyridin-1-one, 9Cl. 4-(2-Hydroxyethyl)-5-vinylnicotinic lactone. Erythricine



CAS Registry Number: 439-89-4

Molecular Formula: C₁₀H₉NO₂

Molecular Weight: 175.187

Accurate Mass: 175.063329

Percentage Composition: C 68.56%; H 5.18%; N 8.00%; O 18.27%

Biological Source: Alkaloid from *Gentiana kirilowi* and very many other *Gentiana* spp., from several *Swertia* spp. and several other genera in Gentianaceae

Use/Importance: CNS stimulant, antihypertensive, antiinflammatory agent and muscle relaxant. Analgesic potentiator of low toxicity. Shows antipsychotic props.

Melting Point: Mp 83°

Calculated Log P Data: Log P 1.48 (calc)

Other Data: The most widespread alkaloid of its group.

>>Derivative: Hydrochloride

Melting Point: Mp 171-172 dec.°

>>Derivative: Picrate

Melting Point: Mp 123-124°

References:

Proskurnina, N.F., *J. Gen. Chem. USSR (Engl. Transl.)*, 1944, **14**, 1148; *CA*, **40**, 7213, (*isol, struct*)

Govindachari, T.R. *et al.*, *J.C.S.*, 1957, 551; 2725, (*isol, struct, uv, synth*)

Lavie, D. *et al.*, *Chem. Ind. (London)*, 1963, 781, (*uv, ir, pmr*)

Bailleul, F. *et al.*, *Phytochemistry*, 1977, **16**, 723, (*cmr*)