



>>Entry Name: Galegine

Synonym(s): (3-Methyl-2-butenyl)guanidine. *N*-Prenylguanidine

CAS Registry Number: 543-83-9



Molecular Formula: C₆H₁₃N₃

Molecular Weight: 127.189

Accurate Mass: 127.110947

Percentage Composition: C 56.66%; H 10.30%; N 33.04%

Biological Source: Toxic principle from *Verbesina encelioides*, *Galega officinalis* (goat's rue) etc. (Compositae, Leguminosae)

Use/Importance: Antihyperglycaemic agent. Shows antidiabetic props.

Physical Description: V. hygroscopic cryst.

Melting Point: Mp 60-65°

Calculated Log P Data: Log P 0 (calc)

Hazard & Toxicity: Pulmonary toxicant

>>Derivative: Sulfate

Physical Description: Needles (H₂O)

Melting Point: Mp 223-225°

References:

Tanret, G., *C. R. Hebd. Seances Acad. Sci. Ser. C*, 1914, **158**, 1182

Schreiber, K. *et al.*, *Annalen*, 1964, **671**, 147; 154, (*isol, synth*)

Reuter, G., *Planta Med.*, 1965, **13**, 494, (*biosynth*)

Eichholzer, J.V. *et al.*, *Phytochemistry*, 1982, **21**, 97, (*isol*)

Huxtable, C.R. *et al.*, *Aust. Vet. J.*, 1993, **70**, 169, (*isol, tox*)