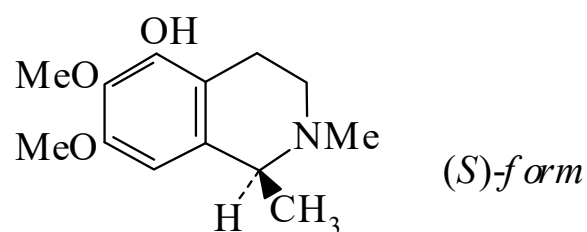




>>Entry Name: 1,2,3,4-Tetrahydro-5-hydroxy-6,7-dimethoxy-1,2-dimethylisoquinoline

Synonym(s): Gigantine. 1,2,3,4-Tetrahydro-6,7-dimethoxy-1,2-dimethyl-5-isoquinolinol, 9Cl



Molecular Formula: C₁₃H₁₉NO₃

Molecular Weight: 237.298

Accurate Mass: 237.136494

Percentage Composition: C 65.80%; H 8.07%; N 5.90%; O 20.23%

>>Variant: (S)-form

CAS Registry Number: 32829-58-6

Molecular Formula: C₁₃H₁₉NO₃

Molecular Weight: 237.298

Accurate Mass: 237.136494

Percentage Composition: C 65.80%; H 8.07%; N 5.90%; O 20.23%

Biological Source: Alkaloid from *Carnegiea gigantea* (Cactaceae)

Use/Importance: Poss. hallucinogen

Physical Description: Cryst. (Et₂O)

Melting Point: Mp 151-152°

Optical Rotation: [α]_D²⁵ +27 (c, 1.99 in CHCl₃)

>>Derivative: Hydrochloride

Physical Description: Cryst. (EtOH)

Melting Point: Mp 221.5-222.5°

>>Variant: (±)-form

Molecular Formula: C₁₃H₁₉NO₃

Molecular Weight: 237.298

Accurate Mass: 237.136494

Percentage Composition: C 65.80%; H 8.07%; N 5.90%; O 20.23%

Source/Synthesis: Synthetic

Physical Description: Cryst. (Et₂O)

Melting Point: Mp 121-123°

>>Derivative: Me ether, picrate

Melting Point: Mp 153-154°

References:

Kapadia, G.J. *et al.*, *Chem. Comm.*, 1970, 856, (*synth*)

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Brown, S.D. *et al.*, *J.O.C.*, 1972, **37**, 1825, (*isol, ir, pmr, ms, struct, abs config, synth*)

Bruhn, J.G. *et al.*, *J. Nat. Prod.*, 1976, **39**, 197, (*isol*)

Cymerman Craig, J. *et al.*, *J.A.C.S.*, 1977, **99**, 7996, (*uv, cd*)