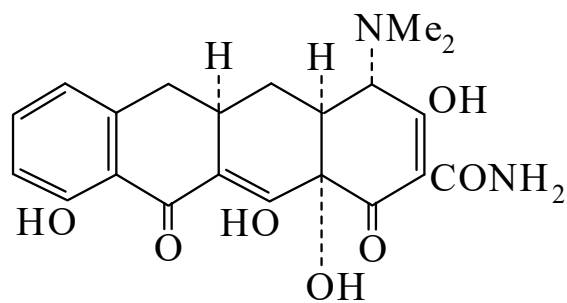




>>Entry Name: Sancycline, INN, USAN

Synonym(s): 6-Demethyl-6-deoxytetracycline. Bonomycin. Norcycline. GS 2147. NSC 51812



Molecular Formula: C₂₁H₂₂N₂O₇

Molecular Weight: 414.414

Accurate Mass: 414.142703

Percentage Composition: C 60.86%; H 5.35%; N 6.76%; O 27.03%

Calculated Log P Data: Log P -0.74 (calc)

>>Variant: (-)-form

CAS Registry Number: 808-26-4

Molecular Formula: C₂₁H₂₂N₂O₇

Molecular Weight: 414.414

Accurate Mass: 414.142703

Percentage Composition: C 60.86%; H 5.35%; N 6.76%; O 27.03%

Source/Synthesis: Semisynthetic tetracycline derived from demethyltetracyclines by hydrogenolysis

Use/Importance: Clinically used antibacterial agent, more acid-stable than other tetracyclines

>>Derivative: Hydrochloride

CAS Registry Number: 6625-20-3

Melting Point: Mp 224-225 dec.°

Optical Rotation: [α]_D²⁵ -102 (c, 1 in 0.01N HCl)

>>Variant: (±)-form

Molecular Formula: C₂₁H₂₂N₂O₇

Molecular Weight: 414.414

Accurate Mass: 414.142703

Percentage Composition: C 60.86%; H 5.35%; N 6.76%; O 27.03%

>>Derivative: Hydrochloride

Physical Description: Pale-yellow prisms or rods + ½ H₂O

Melting Point: Mp 225-226°

References:

McCormick, J.R.D. *et al.*, *J.A.C.S.*, 1960, **82**, 3381, (*synth*)

Conover, L.H. *et al.*, *J.A.C.S.*, 1962, **84**, 3222, (*synth*)

Hlavka, J.J. *et al.*, *J.O.C.*, 1962, **27**, 3674, (*synth, props*)

Benbough, J. *et al.*, *J. Pharm. Pharmacol.*, 1965, **17**, 409, (*props*)

Korst, J.J. *et al.*, *J.A.C.S.*, 1968, **90**, 439, (*synth*)

U.S. Pat., 1970, 3 502 696; *CA*, **73**, 3707d, (*synth*)

Ger. Pat., 1973, 2 232 900; *CA*, **78**, 97393b, (*synth*)