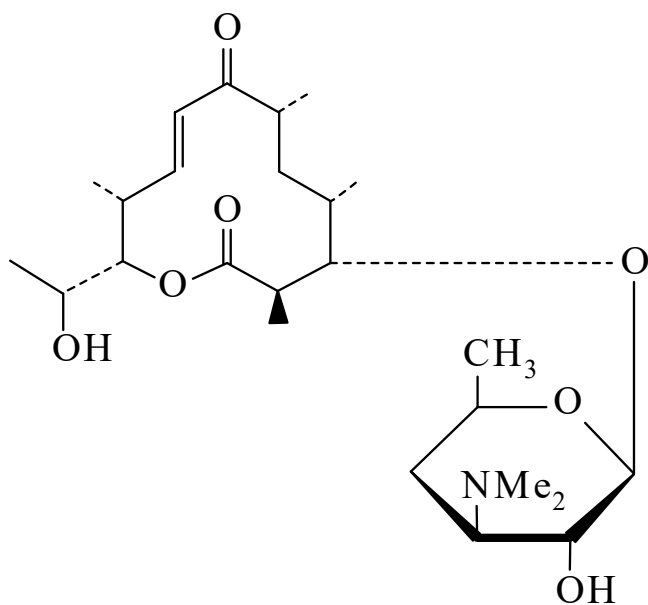




>>Entry Name: Neomethymycin

Synonym(s): 10-Deoxy-12-hydroxymethymycin, 9Cl



CAS Registry Number: 497-73-4

Molecular Formula: C₂₅H₄₃NO₇

Molecular Weight: 469.617

Accurate Mass: 469.303954

Percentage Composition: C 63.94%; H 9.23%; N 2.98%; O 23.85%

Biological Source: Prod. by *Streptomyces* sp. M-2140

Physical Description: Cryst. (Et₂O/hexane)

Melting Point: Mp 156-158°

Optical Rotation: [α]_D +93

Solubility: BERDY SOL: Sol. MeOH, EtOAc, Et₂O, C₆H₆, butanol, Me₂CO, CHCl₃; fairly sol. H₂O; poorly sol. hexane

UV: [neutral] λ_{max} 227 (ε 12600); 322 (ε 40) (EtOH) (Berdy)

>>Derivative: Me₂CO solvate

Melting Point: Mp 156-158°

>>Derivative: CH₂Cl₂ solvate

Physical Description: Hexagonal plates

Melting Point: Mp 154-156°

>>Derivative: Aglycone

Synonym(s): Neomethynolide

CAS Registry Number: 497-51-8

Molecular Formula: C₁₇H₂₈O₅

Molecular Weight: 312.405

Accurate Mass: 312.193675

Percentage Composition: C 65.36%; H 9.03%; O 25.61%

Biological Source: From *Streptomyces venezuelae*

Melting Point: Mp 102-104°

References:

Djerassi, C. *et al.*, *Angew. Chem.*, 1957, **69**, 519; *Tetrahedron*, 1958, **3**, 255; **4**, 369, (*isol, struct*)

Celmer, W.D. *et al.*, *J.A.C.S.*, 1965, **87**, 1801, (*config*)

Rickards, R.W. *et al.*, *Tet. Lett.*, 1970, 1025, (*abs config*)

Olson, K.A. *et al.*, *CA*, 1972, **77**, 113770j, (*synth*)

Maezawa, I. *et al.*, *J. Antibiot.*, 1974, **27**, 84, (*aglycone*)

de Grande, G.G. *et al.*, *CA*, 1975, **82**, 31240a

Paterson, I. *et al.*, *Tetrahedron*, 1985, **41**, 3569, (*synth, rev*)

Inanaga, J. *et al.*, *Bull. Chem. Soc. Jpn.*, 1986, **59**, 1521, (*synth*)