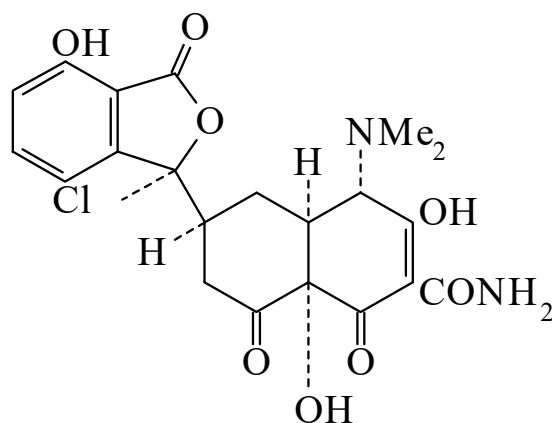




>>Entry Name: Isoaureomycin

Synonym(s): 6-(7-Chloro-1,3-dihydro-4-hydroxyl-1-methyl-3-oxo-1-isobenzofuranyl)-4-(dimethylamino)-1,4,4a,5,6,7,8,8a-octahydro-3,8a-dihydroxy-1,8-dioxo-2-naphthalenecarboxamide, 9Cl. Isochlorotetracycline



CAS Registry Number: 514-53-4

Related CAS Registry Numbers(s): 132356-80-0

Molecular Formula: C₂₂H₂₃ClN₂O₈

Molecular Weight: 478.885

Accurate Mass: 478.114295

Percentage Composition: C 55.18%; H 4.84%; Cl 7.40%; N 5.85%; O 26.73%

Biological Source: Prod. by *Streptomyces aureofaciens*

Use/Importance: Metab. of Aureomycin [CKR88-Y](#)

Physical Description: Cryst. + 1H₂O

Melting Point: Mp 213-224 dec.°

Optical Rotation: [α]_D²⁵ -97 (c, 0.5 in HCl aq.)

pKa Value: pK_a 7.8

>>Derivative: Hydrochloride

CAS Registry Number: 89835-80-3

Melting Point: Mp 255-258 dec.°

Optical Rotation: [α]_D²⁵ -94.5 (c, 0.5 in HCl aq.)

References:

McCormick, J.R.D. *et al.*, *J.A.C.S.*, 1957, **79**, 2849, (*synth*)

Eisner, H.J. *et al.*, *J. Pharmacol. Exp. Ther.*, 1963, **142**, 122, (*metab*)

Laznikova, T.N. *et al.*, *CA*, 1964, **60**, 13606c, (*isol*)

Yasin, A. *et al.*, *J. Pharm. Biomed. Anal.*, 1987, **6**, 867; 1989, **7**, 339, (*hplc*)