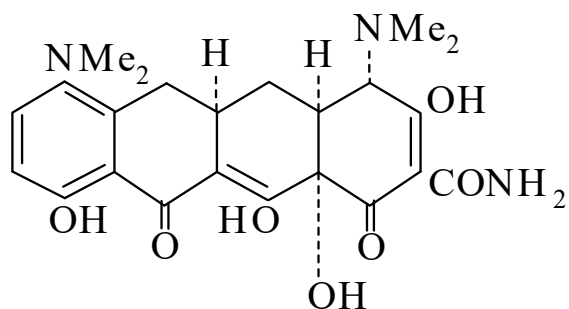




>>Entry Name: Minocycline, BAN, INN, USAN

Synonym(s): 4,7-Bis(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,10,12,12a-tetrahydroxy-1,11-dioxo-2-naphthacenecarboxamide, 9Cl, 8Cl. 6-Demethyl-6-deoxy-7-dimethylaminotetracycline. Minocin. Minomycin[‡]. Many other names



CAS Registry Number: 10118-90-8

Molecular Formula: C₂₃H₂₇N₃O₇

Molecular Weight: 457.482

Accurate Mass: 457.184902

Percentage Composition: C 60.39%; H 5.95%; N 9.19%; O 24.48%

Biological Use/Importance: Effective against tetracycline resistant *Staphylococci* in mice

Physical Description: Yellow-orange amorph. solid

Development Status: Approved 1971

Optical Rotation: $[\alpha]_D^{25} -166$ (c, 0.524 in 0.1M HCl)

Calculated Log P Data: Log P -0.45 (calc)

Hazard & Toxicity: Adverse effects reported when used therapeutically include gastrointestinal disturbances, skin effects and vestibular effects. LD₅₀ (mus, orl) 3100 mg/kg

>>Derivative: Hydrochloride

Synonym(s): Minocycline hydrochloride, JAN, USAN. Aknemin. Dentomycin. Minocyn. Vectrin

CAS Registry Number: 13614-98-7

Physical Description: Yellow cryst.

Hazard & Toxicity: LD₅₀ (mus, orl) 3600 mg/kg

Aldrich: 28671-0

Sigma: M9511

References:

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