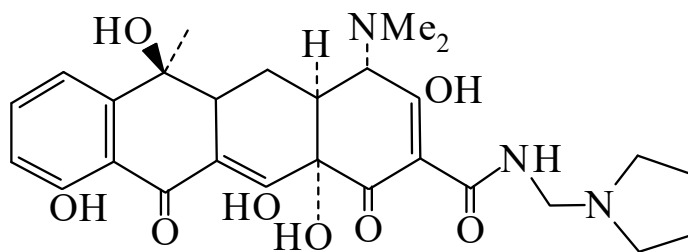




>>Entry Name: Rolitetracycline, BAN, INN, USAN

Synonym(s): 4-(Dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,6,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo-N-(1-pyrrolidinylmethyl)-2-naphthacenecarboxylic acid, 9Cl. N-(1-Pyrrolidinylmethyl)tetracycline. Abriacycline. Bristacin. Reverin. Syntettrin. Tetraverin. Velacycline



CAS Registry Number: 751-97-3

Related CAS Registry Numbers(s): 7681-32-5 26697-32-5

Molecular Formula: C₂₇H₃₃N₃O₈

Molecular Weight: 527.573

Accurate Mass: 527.226767

Percentage Composition: C 61.47%; H 6.30%; N 7.96%; O 24.26%

Source/Synthesis: Obt. from Tetracycline by a Mannich reaction

Biological Use/Importance: Clinically used antibiotic. Shows greater solubility than Tetracycline

Physical Description: Pale-yellow needles

Melting Point: Mp 162-165°

Calculated Log P Data: Log P -0.47 (uncertain value) (calc)

Hazard & Toxicity: Gastrointestinal and other adverse effects reported when used therapeutically. LD₅₀ (mus, orl) 1320 mg/kg. Exp. reprod. and teratogenic effects

Sigma: R2253

>>Derivative: Nitrate

Synonym(s): Pyrrocycline N. Tetrex PMT. Syntettrin nitrate

CAS Registry Number: 20685-78-3

Use/Importance: Clinically used deriv.

Physical Description: Cryst. + 6H₂O

Hazard & Toxicity: LD₅₀ (mus, orl) 3000 mg/kg

References:

- Dimmling, T. *et al.*, *Antibiot. Annu.*, 1959, 60; 350; 365, (*pharmacol*)
Ther, L. *et al.*, *Arzneim.-Forsch.*, 1959, **9**, 63, (*pharmacol*)
Gottstein, W.J. *et al.*, *J.A.C.S.*, 1959, **81**, 1198, (*synth*)
Butterfield, A.G. *et al.*, *Antimicrob. Agents Chemother.*, 1973, **4**, 11, (*chromatg*)
Mazzola, E.P. *et al.*, *J. Pharm. Sci.*, 1980, **69**, 229, (*cmr*)
Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 6th edn., Akademie-Verlag, 1987, 7548
Curtis, R.D. *et al.*, *Can. J. Chem.*, 1991, **69**, 834, (*N-15 nmr*)
Martindale, *The Extra Pharmacopoeia*, 30th edn., Pharmaceutical Press, 1993, 200
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, PPY250; SPE000