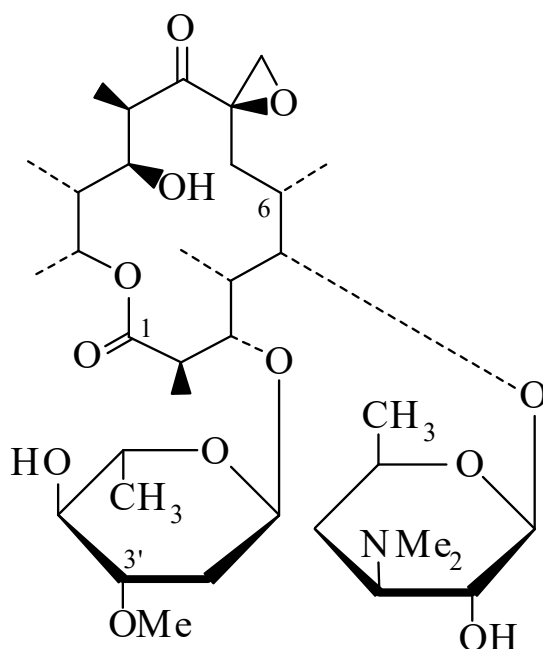




>>Entry Name: Oleandomycin, 9Cl, 8Cl, BAN, INN

Synonym(s): Amimycin. Matromycin. Romicil. Antibiotic PA 105. PA 105



CAS Registry Number: 3922-90-5

Molecular Formula: C₃₅H₆₁NO₁₂

Molecular Weight: 687.866

Accurate Mass: 687.419379

Percentage Composition: C 61.11%; H 8.94%; N 2.04%; O 27.91%

Biological Source: Prod. by *Streptomyces antibioticus* ATCC 11891

Biological Use/Importance: Broad spectrum antibacterial, antimicrobial agent

Physical Description: Prisms

Melting Point: Mp 110 dec.°

Optical Rotation: $[\alpha]_D^{25}$ -65 (c, 2 in MeOH)

Solubility: Sol. MeOH, Et₂O, C₆H₆; fairly sol. H₂O; poorly sol. hexane, CCl₄

Calculated Log P Data: Log P 0.6 (uncertain value) (calc)

UV: [neutral] λ_{max} 286 (E1%/1cm 0.9) (MeOH) (Berdy)

Hazard & Toxicity: LD₅₀ (rat, orl) 6700 mg/kg ; LD₅₀ (mus, ivn) 550 mg/kg

>>Derivative: Hydrochloride

CAS Registry Number: 6696-47-5

Physical Description: Long needles (EtOAc)

Melting Point: Mp 134-135°

Optical Rotation: $[\alpha]_D^{25}$ -54 (c, 1 in MeOH)

Hazard & Toxicity: LD₅₀ (mus, orl) 4000 mg/kg

>>Derivative: Phosphate (1:1)

CAS Registry Number: 7060-74-4

Extra CAS Registry Numbers(s): 7179-39-7

Physical Description: Cryst.

>>Derivative: Tri-Ac

Synonym(s): Triacetyloleandomycin, BAN. Troleandomycin, INN, USAN. Cyclamycin†. Evramycin. NSC 108166. TAO

CAS Registry Number: 2751-09-9

Molecular Formula: C₄₁H₆₇NO₁₅

Molecular Weight: 813.978

Accurate Mass: 813.451074

Percentage Composition: C 60.50%; H 8.30%; N 1.72%; O 29.48%

Source/Synthesis: Semisynthetic

Biological Use/Importance: Antibacterial agent

Physical Description: Cryst. (2-propanol)

Melting Point: Mp 180°