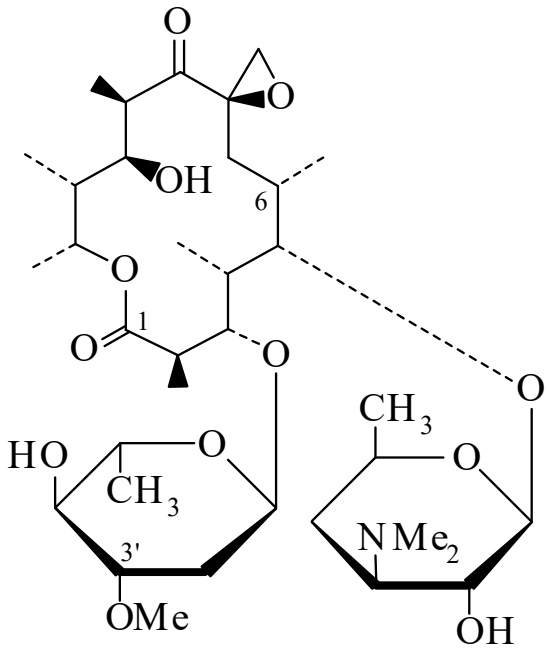
>>**Entry Name: Oleandomycin,** 9CI, 8CI, BAN, INN
Synonym(s): Amimycin. Matromycin. Romicil. Antibiotic PA 105. PA 105



CAS Registry Number: 3922-90-5

Molecular Formula: $C_{35}H_{61}NO_{12}$
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, Et_2O, C_6H_6; fairly sol. H_2O; poorly sol. hexane, CCl_4
Calculated Log P Data: Log P 0.6 (uncertain value) (calc)
UV: [neutral] λ_{max} 286 (E1%/1cm 0.9) (MeOH) (Berdy)
Hazard & Toxicity: LD_{50} (rat, orl) 6700 mg/kg ; LD_{50} (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: LD_{50} (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: $C_{41}H_{67}NO_{15}$
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°