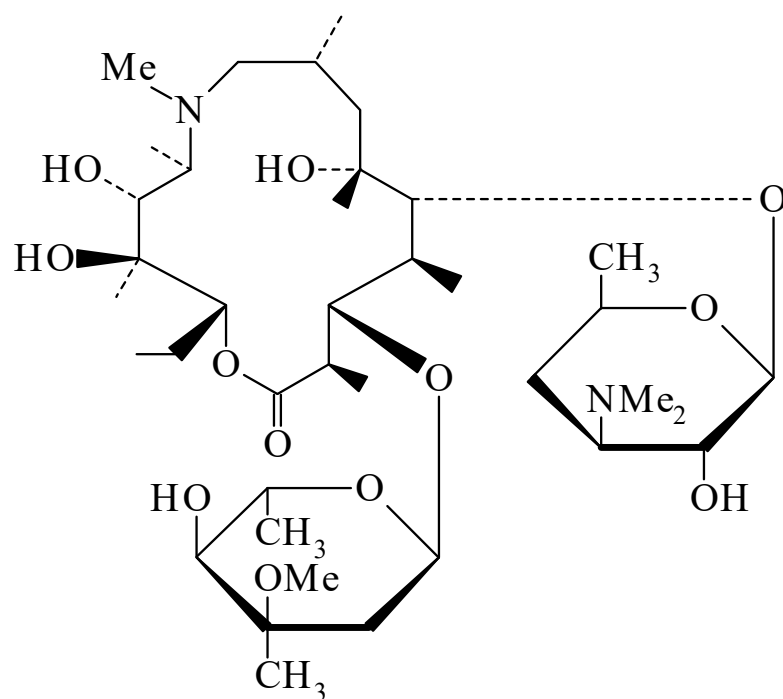




>>Entry Name: Azithromycin, BAN, INN, USAN

Synonym(s): 4"-Epi-9-deoxo-9a-methyl-9a-aza-9a-homoerythromycin A. Azitrocin. Ribotrex. Sumamed. Trezid. Zithromax. CP 62993



CAS Registry Number: 83905-01-5

Related CAS Registry Numbers(s): 117772-70-0

Molecular Formula: $C_{38}H_{72}N_2O_{12}$

Molecular Weight: 748.993

Accurate Mass: 748.508528

Percentage Composition: C 60.94%; H 9.69%; N 3.74%; O 25.63%

General Statement: Macrolide antibiotic

Biological Use/Importance: Antibacterial agent

Physical Description: Cryst. (EtOH aq.)

Development Status: Marketed drug. Launched 1988. Worldwide 25th best selling prescription drug (\$1.38 bn) (Pfizer) (2000, Pharma Business)

Melting Point: Mp 136°. Mp 155°

Calculated Log P Data: Log P 1.83 (uncertain value) (calc)

Hazard & Toxicity: An adverse renal effect reported when used therapeutically. Oral administration caused accumulation of lysosomal lamellar bodies in retinal tissue of dogs

>>Derivative: Hydrochloride (1:2)

CAS Registry Number: 90581-31-0

Physical Description: Cryst. (H₂O)

Melting Point: Mp 184-188°

>>Derivative: Hydroiodide (1:2)

CAS Registry Number: 117772-71-1

Physical Description: Cryst. (H₂O)

Melting Point: Mp 190-193°

>>Derivative: Acetate salt (1:2)

CAS Registry Number: 117772-72-2

Physical Description: Cryst. (Et₂O)

Melting Point: Mp 111-116°

References: