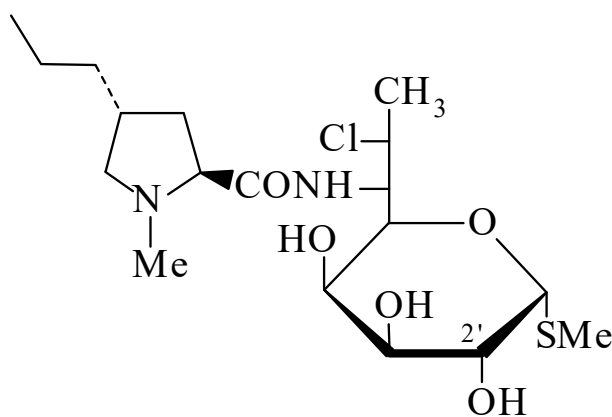




>>Entry Name: **Clindamycin**, BAN, INN, JAN, USAN

Synonym(s): 7-Chloro-7-deoxylincomycin. Aclinda. Basocin. Cleocin. Cleocin T. Clinda. ClindaDerm. ClindaHexal. Clindatech. **Clinimycin**‡. C/T/S. Dalacin C. Dalacin T. Klindamycin. Klinicin. Lanacine. Sobelin. Turimycin. U 21251. Antibiotic U 21251. Many other names



CAS Registry Number: 18323-44-9

Related CAS Registry Numbers(s): 36688-78-5

Molecular Formula: C₁₈H₃₃ClN₂O₅S

Molecular Weight: 424.988

Accurate Mass: 424.17987

Percentage Composition: C 50.87%; H 7.83%; Cl 8.34%; N 6.59%; O 18.82%; S 7.55%

Source/Synthesis: Semisynthetic

Biological Use/Importance: Broad spectrum antibiotic. Used in the treatment of acne

Development Status: Marketed drug. Approved for pharmaceutical use 1992

Optical Rotation: [α]_D +214 (CHCl₃)

Calculated Log P Data: Log P 1.02 (uncertain value) (calc)

Hazard & Toxicity: Gastrointestinal disturbances, hypersensitivity reactions and hepatic effects reported when used therapeutically. LD₅₀ (rat, scu) 2618 mg/kg

>>Derivative: Hydrochloride

Synonym(s): **Clindamycin hydrochloride**, USAN. Dalactine

CAS Registry Number: 21462-39-5

Physical Description: Cryst. (EtOH/EtOAc)

Melting Point: Mp 141-143°

Optical Rotation: [α]_D +144 (H₂O)

Hazard & Toxicity: LD₅₀ (rat, orl) 2193 mg/kg

Fluka: 27543

Sigma: C5269

>>Derivative: O^{2'}-Phosphate

Synonym(s): **Clindamycin phosphate**, USAN. U 28508

CAS Registry Number: 24729-96-2

Molecular Formula: C₁₈H₃₄ClN₂O₈PS

Molecular Weight: 504.968

Accurate Mass: 504.146202

Percentage Composition: C 42.81%; H 6.79%; Cl 7.02%; N 5.55%; O 25.35%; P 6.13%; S 6.35%

Melting Point: Mp 109-114°

Hazard & Toxicity: Cardiotoxic effects reported when used intravenously. LD₅₀ (rat, scu) 3861 mg/kg; LD₅₀ (rat, orl) 1832 mg/kg. Exp. reprod. and teratogenic effects

Sigma: C8411

>>Derivative: 2'-Hexadecanoate; hydrochloride

Synonym(s): **Clindamycin palmitate hydrochloride**, USAN

CAS Registry Number: 25507-04-4

Hazard & Toxicity: LD₅₀ (rat, scu) 2000 mg/kg