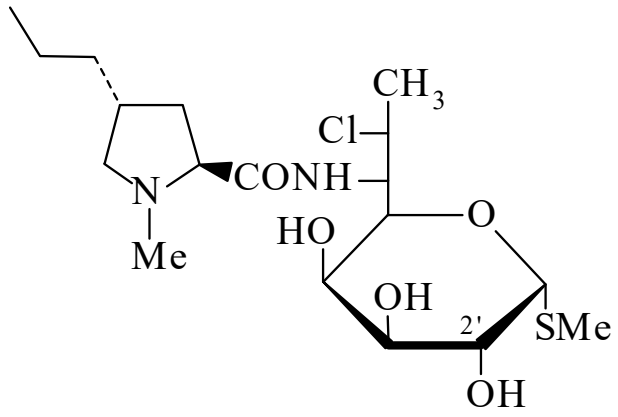
>>**Entry Name: Clindamycin,** BAN, INN, JAN, USAN
Synonym(s): 7-Chloro-7-deoxylincomycin. Aclinda. Basocin. Cleocin. Cleocin T. Clinda. ClindaDerm. Clindahexal. Clindatech. **Clinimycin‡.** C/T/S. Dalacin C. Dalacin T. Klindamycin. Klinicin. Lanacine. Sobelin. Turimycin. U 21251. Antibiotic U 21251. Many other names



CAS Registry Number: 18323-44-9
Related CAS Registry Numbers(s): 36688-78-5

Molecular Formula: $C_{18}H_{33}ClN_2O_5S$
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: $[\alpha]_D$ +214 ($CHCl_3$)
Calculated Log P Data: Log P 1.02 (uncertain value) (calc)
Hazard & Toxicity: Gastrointestinal disturbances, hypersensitivity reactions and hepatic effects reported when used therapeutically. LD_{50} (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: $[\alpha]_D$ +144 (H_2O)
Hazard & Toxicity: LD_{50} (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: $C_{18}H_{34}ClN_2O_8PS$
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. LD_{50} (rat, scu) 3861 mg/kg; LD_{50} (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: LD_{50} (rat, scu) 2000 mg/kg

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