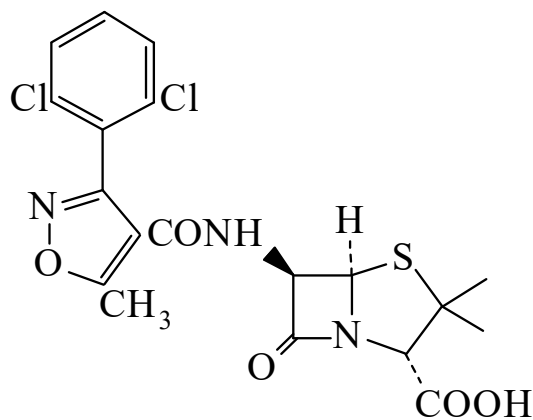




>>Entry Name: Dicloxacillin, BAN, INN, USAN

Synonym(s): 3-(2,6-Dichlorophenyl)-5-methyl-4-isoxazolylpenicillin. Maclicine. Many other names



CAS Registry Number: 3116-76-5

Related CAS Registry Numbers(s): 343-55-5

Molecular Formula: C₁₉H₁₇Cl₂N₃O₅S

Molecular Weight: 470.332

Accurate Mass: 469.026596

Percentage Composition: C 48.52%; H 3.64%; Cl 15.08%; N 8.93%; O 17.01%; S 6.82%

Source/Synthesis: Semisynthetic penicillin

Use/Importance: Orally absorbed antibiotic resistant to staphylococcal β -lactamase

Calculated Log P Data: Log P 3.79 (calc)

>>Derivative: Na salt

Synonym(s): Dicloxacillin sodium, JAN, USAN. Antibiotic BRL 1702. Antibiotic P 1011. Diclocil. Dycill. Veracillin. BRL 1702. P 1011

CAS Registry Number: 13412-64-1

Physical Description: Monohydrate

Melting Point: Mp 222-225 dec.°

Optical Rotation: $[\alpha]_D^{20} +127.2$ (H₂O)

Solubility: Sol. H₂O

Hazard & Toxicity: Hypersensitivity reactions and other adverse effects reported when used therapeutically. LD₅₀ (rat, orl) 3580 mg/kg

Sigma: D9016

References:

- Gloxhuber, C. *et al.*, *Arzneim.-Forsch.*, 1965, **15**, 322, (*props*)
Hanson, J. *et al.*, *J.C.S.*, 1965, 5976, (*synth*)
U.K. Pat., 1965, 978 299; *CA*, **62**, 10441
Blanpain, P. *et al.*, *Cryst. Struct. Commun.*, 1977, **6**, 711, (*cryst struct, ester*)
Chang, C.-J. *et al.*, *J. Pharm. Sci.*, 1979, **68**, 64, (*cmr*)
Murai, Y. *et al.*, *Chem. Pharm. Bull.*, 1983, **31**, 3292; 1984, **32**, 3277, (*pmr, cmr, metab*)
Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 6th edn., Akademie-Verlag, 1987, 5134, (*synonyms*)
Kirk-Othmer Encycl. Chem. Technol., 4th edn., Wiley, 1991, **3**, 129, (*rev*)
Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 159
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, DGE200