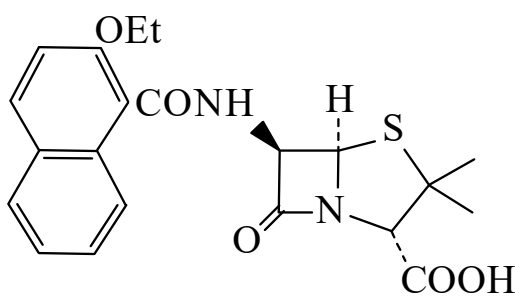




>>Entry Name: Nafcillin, BAN, INN

Synonym(s): 2-Ethoxy-1-naphthylpenicillin. 6-(2-Ethoxy-1-naphthamido)penicillanic acid



CAS Registry Number: 7177-50-6

Related CAS Registry Numbers(s): 985-16-0

Extra CAS Registry Numbers(s): 147-52-4

Molecular Formula: C₂₁H₂₂N₂O₅S

Molecular Weight: 414.481

Accurate Mass: 414.124943

Percentage Composition: C 60.85%; H 5.35%; N 6.76%; O 19.30%; S 7.74%

Biological Use/Importance: Antibiotic, stable to staphylococcal β -lactamase

Calculated Log P Data: Log P 3.46 (calc)

Sigma: N3269

>>Derivative: Na salt

Synonym(s): Nafcillin sodium, USAN. Nafcil. **Unipen**†. Wy 3277. Antibiotic Wy 3277. Naftopen. Nallpen. Naphthcillin

CAS Registry Number: 985-16-0

Physical Description: Needles + 1H₂O

Optical Rotation: $[\alpha]_D^{23} +198$ (c, 1.2 in H₂O)

Sigma: N4008

References:

U.K. Pat., 1961, 880 400; CA, **57**, 13763, (synth)

Brain, E.G. et al., J.C.S., 1963, 491, (synth)

Walkenstein, S.S. et al., J. Pharm. Sci., 1963, **52**, 763, (metab)

Glassman, J.M. et al., Toxicol. Appl. Pharmacol., 1964, **6**, 1220, (pharmacol)

Branpain, P.C. et al., J. Med. Chem., 1980, **23**, 1283, (cryst struct)

Ohashi, M. et al., J. Pharm. Sci., 1983, **72**, 508, (ms)

Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 183

Lewis, R.J., Sax's Dangerous Properties of Industrial Materials, 8th edn., Van Nostrand Reinhold, 1992, SGS500