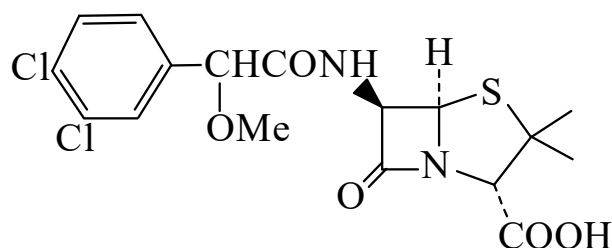




>>Entry Name: Clometocillin, INN

Synonym(s): 6-(α -Methoxy-3,4-dichlorophenylacetamido)penicillanic acid. Chlomethocillin



CAS Registry Number: 1926-49-4

Molecular Formula: $C_{17}H_{18}Cl_2N_2O_5S$

Molecular Weight: 433.311

Accurate Mass: 432.031347

Percentage Composition: C 47.12%; H 4.19%; Cl 16.36%; N 6.46%; O 18.46%; S 7.40%

General Statement: D-isomer more potent

Source/Synthesis: Semisynthetic penicillin

Calculated Log P Data: Log P 3.11 (uncertain value) (calc)

Other Data: Racemic at side-chain α -position. Epimers can be separated by fractional crystallisation of Na salt

>>Derivative: Mono K salt

Synonym(s): Rixapen. RIT 356

CAS Registry Number: 15433-28-0

>>Variant: L-form

Molecular Formula: $C_{17}H_{18}Cl_2N_2O_5S$

Molecular Weight: 433.311

Accurate Mass: 432.031347

Percentage Composition: C 47.12%; H 4.19%; Cl 16.36%; N 6.46%; O 18.46%; S 7.40%

>>Derivative: Na salt

Melting Point: Mp 180-183 dec. $^{\circ}$

Optical Rotation: $[\alpha]_D^{20} +261$ (c, 0.02 in H_2O)

>>Variant: D-form

Molecular Formula: $C_{17}H_{18}Cl_2N_2O_5S$

Molecular Weight: 433.311

Accurate Mass: 432.031347

Percentage Composition: C 47.12%; H 4.19%; Cl 16.36%; N 6.46%; O 18.46%; S 7.40%

>>Derivative: Na salt

Melting Point: Mp 232-235 dec. $^{\circ}$

Optical Rotation: $[\alpha]_D^{20} +182$ (c, 0.02 in H_2O)

References:

Vanderhaeghe, H. *et al.*, *Antimicrob. Agents Chemother.*, 1961, 581, (synth)

van Dijk, P.J. *et al.*, *Antibiot. Chemother. (Washington, D.C.)*, 1962, **12**, 187; 192, (pharmacol)

Martindale, *The Extra Pharmacopoeia*, 28th/29th edn., Pharmaceutical Press, 1982, 57