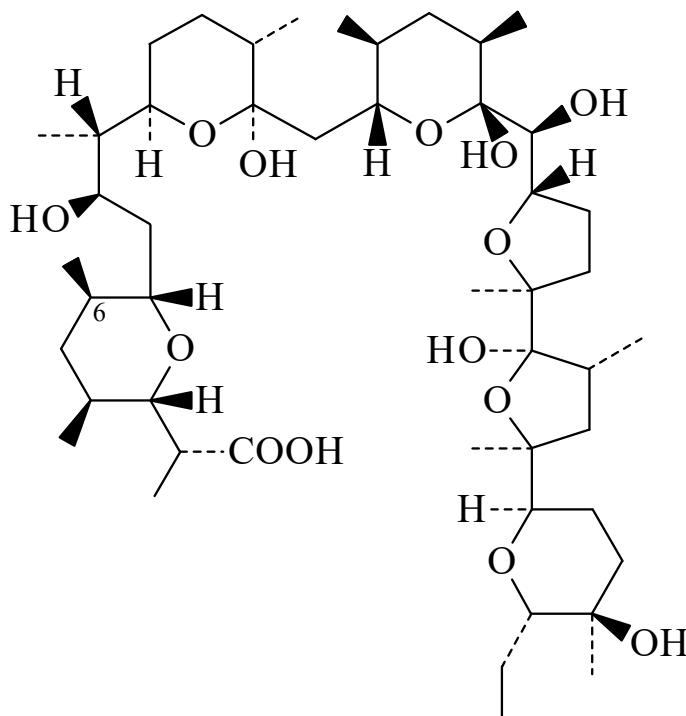




>>Entry Name: Alborixin, 9CI

Synonym(s): S 14750A. Antibiotic S 14750A. CP 38986. Antibiotic CP 38986



CAS Registry Number: 57760-36-8

Molecular Formula: $C_{48}H_{84}O_{14}$

Molecular Weight: 885.183

Accurate Mass: 884.58611

Percentage Composition: C 65.13%; H 9.56%; O 25.30%

General Statement: Polyether antibiotic

Biological Source: Isol. from *Streptomyces albus* and *Streptomyces hygroscopicus*

Use/Importance: Exhibits ionophoric props., active against gram-positive and -negative bacteria and fungi. Anticryptosporidial activity

Physical Description: Amorph. solid

Melting Point: Mp 100-115°

Optical Rotation: $[\alpha]_D^{20} -7$ (c, 4 in Me_2CO)

Calculated Log P Data: Log P 4.22 (uncertain value) (calc)

UV: [neutral] λ_{max} 0 (end) (ϵ) (MeOH) (Derep)

Other Data: Similar to Antibiotic X 206 [CKR09-B](#)

Hazard & Toxicity: LD₅₀ (mus, scu) 150 mg/kg

>>Derivative: K salt

Melting Point: Mp 209-210°

>>Derivative: Me ester

Molecular Formula: $C_{49}H_{86}O_{14}$

Molecular Weight: 899.21

Percentage Composition: C 65.45%; H 9.64%; O 24.91%

Melting Point: Mp 67-68°

>>Derivative: 6-De-Me

see Antibiotic X 206, [CKR09-B](#)

References:

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Gachon, P. *et al.*, *J. Antibiot.*, 1976, **29**, 603, (isol, struct, ir, ms, pmr, cmr)
Delhomme, C. *et al.*, *J. Antibiot.*, 1976, **29**, 692, (struct)
Rodios, N.A. *et al.*, *Bull. Soc. Chim. Belg.*, 1979, **88**, 279, (nmr)
Seto, H. *et al.*, *J. Antibiot.*, 1979, **32**, 970, (cmr, struct)
Nakamura, H., *Antimicrob. Agents Chemother.*, 1992, **36**, 492, (activity)
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