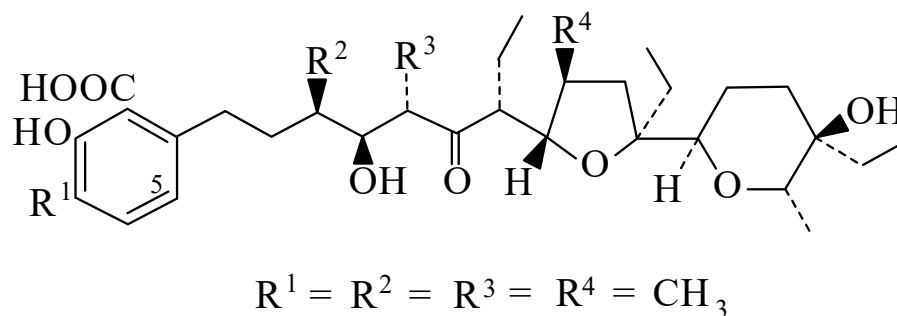




>>Entry Name: Lasalocid A

Synonym(s): Lasalocid, BAN, INN, USAN. Avatec. Bovatec. Ro 2-2985. X 537A. Antibiotic Ro 2-2985. Antibiotic X 537A



CAS Registry Number: 25999-31-9

Molecular Formula: $\text{C}_{34}\text{H}_{54}\text{O}_8$

Molecular Weight: 590.796

Accurate Mass: 590.38187

Percentage Composition: C 69.12%; H 9.21%; O 21.66%

Biological Source: Prod. by *Streptomyces lasaliensis*

Use/Importance: Ionophoric, antibacterial agent, shows anti-HIV activity. Poultry coccidiostat

Melting Point: Mp 110-114°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -7.55$ (c, 1.0 in MeOH)

Solubility: BERDY SOL: Sol. MeOH, Et₂O; fairly sol. hexane; poorly sol. H₂O

Calculated Log P Data: Log P 7.18 (uncertain value) (calc)

UV: [base] λ_{max} 245 (sh) (ϵ); 308 (ϵ 4100) (as Na salt) (Derep) [neutral] λ_{max} 248 (ϵ 6750); 318 (ϵ 4200) (50% isopropanol) (Derep) [neutral] λ_{max} 248 (ϵ 6750); 318 (ϵ 4200) (MeOH) (Berdy) [neutral] λ_{max} 249 (ϵ 6400); 317 (ϵ 3700) (2-propanol) (Berdy)

Hazard & Toxicity: LD₅₀ (mus, orl) 146 mg/kg ; BERDY HAZD : LD₅₀ (mus, ipr) 40 mg/kg , LD₅₀ (mus, ipr) 64 mg/kg , LD₅₀ (mus, orl) 146 mg/kg

>>Derivative: Na salt

CAS Registry Number: 25999-20-6

Physical Description: Cryst.

Melting Point: Mp 168-171°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -30$ (c, 1.0 in MeOH)

Aldrich: 21111-7

Fluka: 61575

Sigma: L9127

>>Derivative: Me ester

CAS Registry Number: 33855-15-1

Physical Description: Oil

Boiling Point: Bp_{0.05} 170° dec.

Optical Rotation: $[\alpha]_{\text{D}} -7.2$ (c, 1 in MeOH)

>>Derivative: Benzyl ester

Melting Point: Mp 42-44°

References: