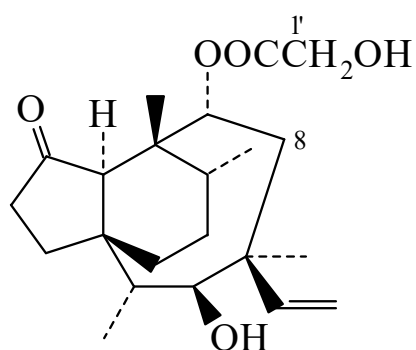




>>Entry Name: **Pleuromutilin**

Synonym(s): **Pleuromulin**, INN. Drosophilin B. A 40104C. Antibiotic A 40104C



Absolute
configuration

CAS Registry Number: 125-65-5

Related CAS Registry Numbers(s): 80924-94-3

Molecular Formula: C₂₂H₃₄O₅

Molecular Weight: 378.508

Accurate Mass: 378.240625

Percentage Composition: C 69.81%; H 9.05%; O 21.13%

Biological Source: Isol. from *Pleurotus mutilus*, *Pleurotus passeckerianus* and *Drosophila subatrata*

Use/Importance: Mainly active against gram-positive bacteria

Physical Description: Cryst. (EtOH/Et₂O or EtOAc/petrol)

Melting Point: Mp 170-171° (165-166°)

Optical Rotation: [α]_D²⁵ +34.7 (c, 1.03 in CHCl₃)

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

Calculated Log P Data: Log P 2.45 (calc)

UV: [neutral] $\lambda_{\max}$ 290 (ϵ) (MeOH) (Derep) [neutral] $\lambda_{\max}$ 205 (); 293 () (Et₂O) (Berdy) [neutral] $\lambda_{\max}$ 209 (); 290 () (EtOH) (Berdy)

Hazard & Toxicity: LD₅₀ (mus, ipr) 60 mg/kg ; BERDY HAZD : LD₅₀ (mus, ipr) 60 mg/kg , LD₅₀ (mus, ivn) 50 mg/kg

>>Derivative: Di-Ac

Physical Description: Cryst. (EtOH)

Melting Point: Mp 145.5°

>>Derivative: Bis(3,5-dinitrobenzoyl)

Physical Description: Cryst. (EtOH/C₆H₆)

Melting Point: Mp 249-250°

>>Derivative: O^{1'}- β -D-Xylopyranoside

Synonym(s): Antibiotic A 40104A. A 40104A

CAS Registry Number: 69659-06-9

Molecular Formula: C₂₇H₄₂O₉

Molecular Weight: 510.623

Accurate Mass: 510.282885

Percentage Composition: C 63.51%; H 8.29%; O 28.20%

Biological Source: Prod. by *Cleptopilus pseudopinsitus*

Use/Importance: Active against gram-positive and -negative bacteria

Physical Description: Cryst.

Optical Rotation: [α]_D²⁵ -14 (c, 1 in EtOH)

Calculated Log P Data: Log P 0.22 (uncertain value) (calc)

Other Data: Struct. based on CA Registry info.; ref. inaccessible, CAS abstract defective