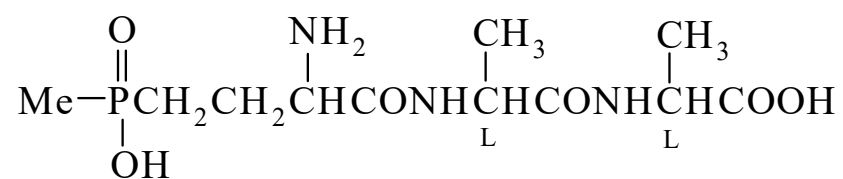




>>Entry Name: Bilanafos

Synonym(s): Antibiotic SF 1293. γ -(Hydroxymethylphosphinyl)-L- α -aminobutyryl-L-alanyl-L-alanine. Phosphinothricylalanylalanine. Bialaphos. SF 1293



CAS Registry Number: 35597-43-4

Molecular Formula: C₁₁H₂₂N₃O₆P

Molecular Weight: 323.285

Accurate Mass: 323.124624

Percentage Composition: C 40.87%; H 6.86%; N 13.00%; O 29.69%; P 9.58%

General Statement: Peptide antibiotic

Biological Source: From *Streptomyces viridochromogenes* and *Streptomyces hygroscopicus*

Biological Use/Importance: Antifungal antibiotic and herbicide

Physical Description: Amphoteric powder

Melting Point: Mp 159-161°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -34$ (c, 1 in H₂O)

UV: [neutral] λ_{max} 0 (end) (ϵ) (H₂O) (Derep)

Hazard & Toxicity: LD₅₀ (mus, orl) 500 mg/kg

Sigma: B7420

References:

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Seto, H. *et al.*, *Biochem. Biophys. Res. Commun.*, 1983, **111**, 1008-1014, (*biosynth*)

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