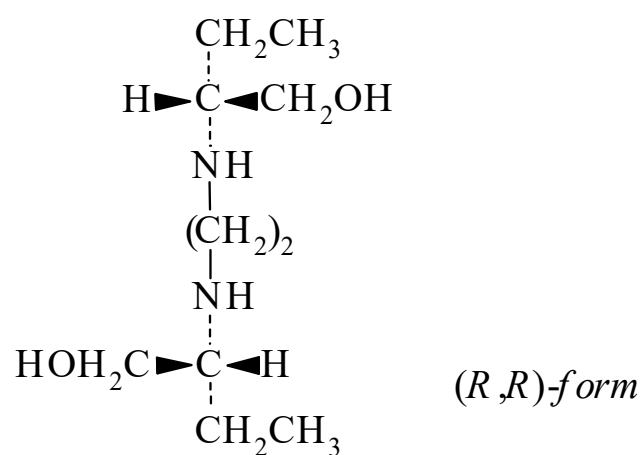




>>>Entry Name: Ethambutol, BAN, INN

Synonym(s): 2,2'-(1,2-Ethanediyldiimino)bis(1-butanol), 9Cl. 2,2'-(Ethylenediimino)di-1-butanol, 8Cl. *N,N'*-Di(1-hydroxymethylpropyl)ethylenediamine. Etambutol



CAS Registry Number: 3577-94-4

Molecular Formula: C₁₀H₂₄N₂O₂

Molecular Weight: 204.312

Accurate Mass: 204.183778

Percentage Composition: C 58.79%; H 11.84%; N 13.71%; O 15.66%

General Statement: The (+)-enantiomer shows 12 times more antibacterial activity than the *meso*-isomer and 200 times more than the (±)-form. The (+)-form is now the marketed form

Use/Importance: Antibacterial, esp. tuberculostatic

Calculated Log P Data: Log P 0.12 (calc)

>>>Variant: (*R,R*)-form

CAS Registry Number: 74-55-5

Molecular Formula: C₁₀H₂₄N₂O₂

Molecular Weight: 204.312

Accurate Mass: 204.183778

Percentage Composition: C 58.79%; H 11.84%; N 13.71%; O 15.66%

Melting Point: Mp 89-90°

>>>Derivative: Hydrochloride (1:2)

Melting Point: Mp 200.5-201.5°

>>>Variant: (*S,S*)-form

Synonym(s): L-form

CAS Registry Number: 10054-05-4

Molecular Formula: C₁₀H₂₄N₂O₂

Molecular Weight: 204.312

Accurate Mass: 204.183778

Percentage Composition: C 58.79%; H 11.84%; N 13.71%; O 15.66%

Physical Description: Cryst. (CHCl₃/petrol)

Melting Point: Mp 87.5-88.8°

Optical Rotation: [α]_D²⁴+13.7 (c, 2 in H₂O)

>>>Derivative: Hydrochloride (1:2)

Synonym(s): Ethambutol hydrochloride, USAN. Myambutol

CAS Registry Number: 1070-11-7

Melting Point: Mp 198.5-200.3°

Optical Rotation: [α]_D²⁵+5.5 (H₂O)

Hazard & Toxicity: Major adverse effect is a dose-related visual disturbance associated with retrobulbar neuritis. LD₅₀ (rat, orl) 6800 mg/kg. Exp. teratogen

Sigma: E4630

>>>Derivative: Compd. with 4-Pyridinecarboxylic acid 2-(sulfomethyl)hydroxide (1:2)

Synonym(s): Ethambutol methaniazide. Isoetam. Izoetam

CAS Registry Number: 41663-50-7