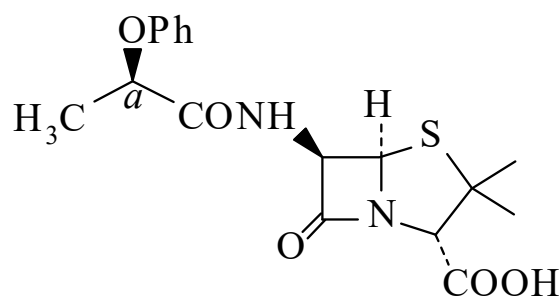




>>Entry Name: Pheneticillin, INN

Synonym(s): 6-(α -Phenoxypropionamido)penicillanic acid. 1-(Phenoxyethyl)penicillin. Fenethicillin. **Phenethicillin**, BAN. BL P152. BRL 152. Many other names



Molecular Formula: C₁₇H₂₀N₂O₅S

Molecular Weight: 364.421

Accurate Mass: 364.109293

Percentage Composition: C 56.03%; H 5.53%; N 7.69%; O 21.95%; S 8.80%

Use/Importance: Orally absorbed antibiotic active against gram-positive bacteria

pKa Value: pK_a 2.73 (25°, H₂O)

Calculated Log P Data: Log P 2.19 (calc)

>>Variant: (α R)-form

Synonym(s): D-form

CAS Registry Number: 34378-72-8

Molecular Formula: C₁₇H₂₀N₂O₅S

Molecular Weight: 364.421

Accurate Mass: 364.109293

Percentage Composition: C 56.03%; H 5.53%; N 7.69%; O 21.95%; S 8.80%

>>Derivative: K salt

CAS Registry Number: 20676-17-9

Physical Description: Cryst. (butanol aq.)

Melting Point: Mp 234.5-235°

Optical Rotation: [α]_D²⁰ +252 (c, 1 in H₂O)

>>Variant: (α S)-form

Synonym(s): L-form. Epiphenethicillin

CAS Registry Number: 1914-69-8

Molecular Formula: C₁₇H₂₀N₂O₅S

Molecular Weight: 364.421

Accurate Mass: 364.109293

Percentage Composition: C 56.03%; H 5.53%; N 7.69%; O 21.95%; S 8.80%

>>Derivative: K salt

CAS Registry Number: 7177-41-5

Physical Description: Cryst. (butanol aq.)

Melting Point: Mp 238-239°

Optical Rotation: [α]_D²⁴ +218 (c, 0.01 in H₂O)

>>Variant: (α RS)-form

Synonym(s): DL-form

CAS Registry Number: 147-55-7

Molecular Formula: C₁₇H₂₀N₂O₅S

Molecular Weight: 364.421

Accurate Mass: 364.109293

Percentage Composition: C 56.03%; H 5.53%; N 7.69%; O 21.95%; S 8.80%

Use/Importance: Commercially used form

Other Data: Racemic at the side-chain carbon but opt. active, not a true racemate