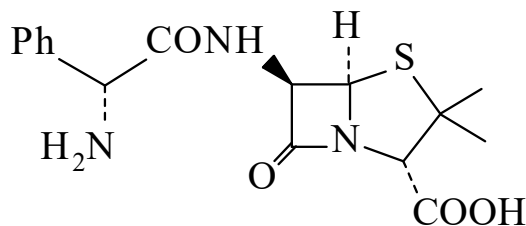




>> **Name:** Ampicillin, BAN, INN, JAN, USAN

ENTRY UNDER REVIEW

Synonym(s): 6-[(Aminophenylacetyl)amino]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 9CI. D- α -Aminobenzylpenicillin. 6-(α -Aminophenylacetamido)penicillanic acid. Vidocillin. AY 6108. BRL 1341. NSC 528986. Vicilline. Penbritin. Penbristol. Penicline. Omnipen. Binotal. Amblosin. Tolomol. Amfipen



CAS Registry Number: 69-53-4

Related CAS Registry Numbers(s): 94935-63-4

Extra CAS Registry Numbers(s): 7177-48-2

Molecular Formula: C₁₆H₁₉N₃O₄S

Molecular Weight: 349.41

Accurate Mass: 349.109627

Percentage Composition: C 55.00%; H 5.48%; N 12.03%; O 18.32%; S 9.18%

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

Development Status: Worldwide 92nd best selling prescription drug (as Unasyn in combination with [DLL07-N](#)) (\$0.33 bn) (Pfizer) (1996, PharmaBusiness)

Melting Point: Mp 199-202 dec.°

Optical Rotation: [α]_D²³+287.9 (H₂O)

pKa Value: pK_{a1} 2.52; pK_{a2} 7.24 (25°)

Calculated Log P Data: Log P -1.27 (uncertain value) (calc)

Other Data: Constit. of Unasyn

Hazard & Toxicity: Hypersensitivity reactions reported when used therapeutically. LD₅₀ (rat, ipr) 4500 mg/kg. Exp. teratogen

Aldrich: 27186-1

Fluka: 10047

Sigma: A9393

>>**Derivative:** Na salt

Synonym(s): Ampicillin sodium, USAN. Omnipen. Embacillin C

CAS Registry Number: 69-52-3

Hazard & Toxicity: LD₅₀ (mus, ipr) 3480 mg/kg

Aldrich: 27188-8

Fluka: 10044

Sigma: A0797

>>**Derivative:** (5-Methyl-2-oxo-1,3-dioxol-4-yl)methyl ester

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