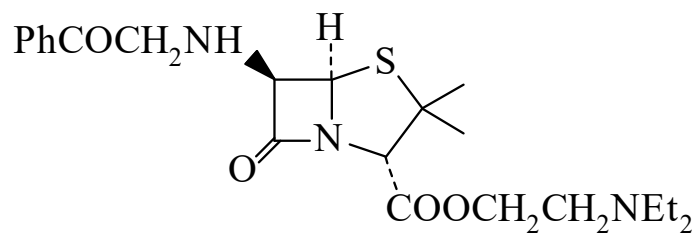




>>Entry Name: Penethamate

Synonym(s): 2-(Diethylamino)ethyl 3,3-dimethyl-7-oxo-6-[(phenylacetyl)amino]-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate, 9Cl. 2-Diethylaminoethyl 6-(2-phenylacetamido)penicillanate



CAS Registry Number: 3689-73-4

Molecular Formula: C₂₂H₃₁N₃O₄S

Molecular Weight: 433.571

Accurate Mass: 433.203527

Percentage Composition: C 60.95%; H 7.21%; N 9.69%; O 14.76%; S 7.40%

Use/Importance: Used for treatment of respiratory tract infections in animals

Calculated Log P Data: Log P 3.3 (calc)

Other Data: Used mainly as hydroiodide

Hazard & Toxicity: LD₅₀ (rat, ivn) 217 mg/kg

>>Derivative: Hydroiodide

Synonym(s): Penethamate hydriodide, BAN, Leocillin. Estopen. Alivin. Bronchocillin. Broncopen. Many other names

CAS Registry Number: 808-71-9

Melting Point: Mp 173-174°

Solubility: Sl. sol. H₂O

Other Data: Should be stored at 4° to retain potency for 30 days

References:

Engelbreth-Holm, J. *et al.*, *Acta Pharmacol. Toxicol.*, 1953, **9**, 117, (tox)

Nielsen, A.T., *Acta Pharmacol. Toxicol.*, 1953, **9**, 179, (pharmacol)

Spanish Pat., 1953, *Antibioticos*, 206 653; *CA*, **48**, 11011d, (synth)

Martindale, The Extra Pharmacopoeia, 28th/29th edn., *Pharmaceutical Press*, 1982, 125

Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 7th edn., *Akademie-Verlag*, 1994, 9229, (synonyms)