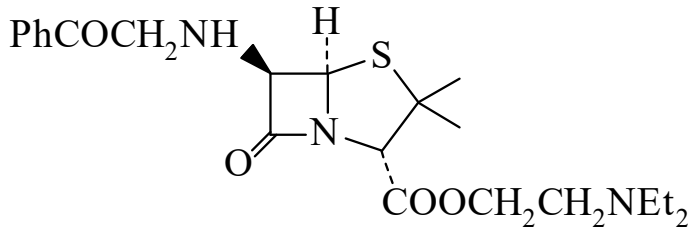
>>**Entry Name: Penethamate**

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: $C_{22}H_{31}N_3O_4S$
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: LD_{50} (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. H_2O
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)*

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