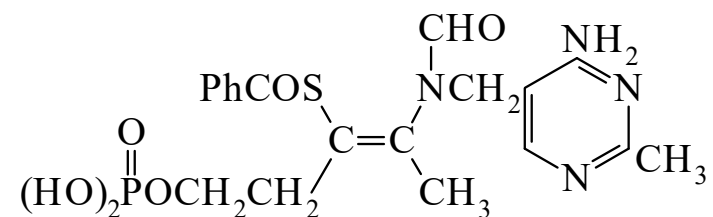




>>Entry Name: Benfotiamine, INN

Synonym(s): *S*-[2-[[[(4-Amino-2-methyl-5-pyrimidinyl)methyl]formylamino]-1-[2-(phosphonoxy)ethyl]-1-propenyl] benzenecarbothioate, 9Cl. Betivina. Neurostop. Biotamin. Vitanervil. Benzoylthiamine monophosphate. 8088 C.B.. Many other names



CAS Registry Number: 22457-89-2

Related CAS Registry Numbers(s): 137-74-6

Molecular Formula: C₁₉H₂₃N₄O₆PS

Molecular Weight: 466.454

Accurate Mass: 466.107593

Percentage Composition: C 48.92%; H 4.97%; N 12.01%; O 20.58%; P 6.64%; S 6.87%

Use/Importance: Vitamin B₁ replacement, analgesic, low acute toxicity

Physical Description: Dihydrate or hemihydrate

Melting Point: Mp 165 dec.°

Sigma: B9636

References:

Ger. Pat., 1962, 1 130 811; *CA*, **57**, 13764h, (*synth, pharmacol*)

Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 6th edn., Akademie-Verlag, 1987, 5343, (*synonyms*)

Shin, W. *et al.*, *Acta Cryst. C*, 1993, **49**, 294, (*cryst struct*)

Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 1052