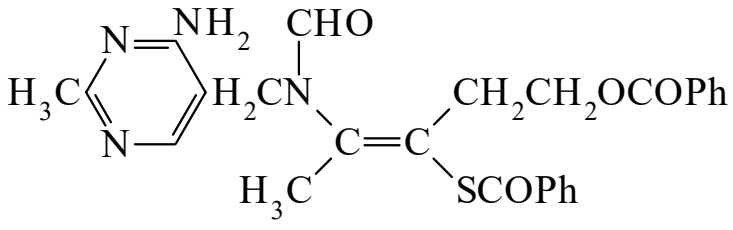
>>**Entry Name: Bentiamine,** INN

Synonym(s): *S*-[2-[[(4-Amino-2-methyl-5-pyrimidinyl)methyl]formylamino]-1-[(2-benzoxyloxyl)]ethyl-1-propenyl] benzenecarbothioate, 9CI. *N*-[(Amino-2-methyl-5-pyrimidinyl)methyl]-*N*-(4-hydroxy-2-mercapto-1-methyl-1-butenyl)formamide *O*,*S*-dibenzoate, 8CI. Dibenzoylthiamine. **DBT‡**



CAS Registry Number: 299-88-7
Related CAS Registry Numbers(s): 35660-60-7

Molecular Formula: $C_{26}H_{26}N_4O_4S$
Molecular Weight: 490.582
Accurate Mass: 490.167476
Percentage Composition: C 63.66%; H 5.34%; N 11.42%; O 13.05%; S 6.54%
Use/Importance: Topical analgesic (Vit. B_1 source)
Physical Description: Cryst. (EtOH)
Melting Point: Mp 153-154°
Hazard & Toxicity: LD_{50} (mus, orl) 7480 mg/kg. LD_{50} (mus, ipr) 2120 mg/kg

References:

Takamizawa, A. *et al.*, *Chem. Pharm. Bull.*, 1964, **12**, 558, *(synth)*
Asahi, Y.*, Shionogi Kenkyusho Nenpo*, 1968, **27**, 58, *(nmr)*
Heywood, R. *et al.*, *Toxicol. Lett.*, 1985, **26**, 53, *(tox)*
Shin, W.*, Acta Cryst. C*, 1988, **44**, 1754, *(cryst structt)*