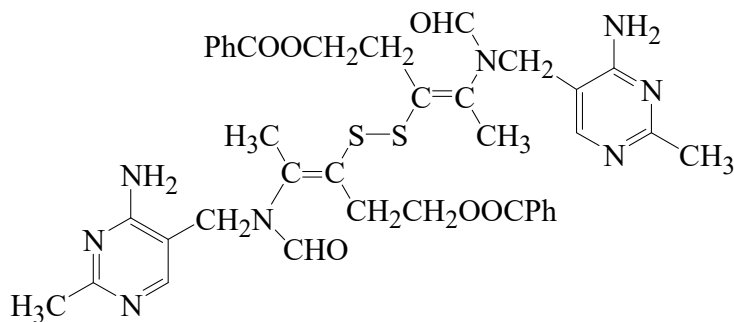




>>Entry Name: **Bisbentiamine**, INN, JAN

**Synonym(s):** *N,N'*-[Dithiobis[2-(2-benzoyloxyethyl)-1-methyl-2,1-ethenediyl]]bis[*N*-[(4-amino-2-methyl-5-pyrimidinyl)methyl]formamide], 9Cl. *O*-Benzoylthiamine disulfide. Beprocin. Kestoben. **Beston**‡. Neostal



**CAS Registry Number:** 2667-89-2

**Related CAS Registry Numbers(s):** 85985-54-2

**Molecular Formula:** C<sub>38</sub>H<sub>42</sub>N<sub>8</sub>O<sub>6</sub>S<sub>2</sub>

**Molecular Weight:** 770.932

**Accurate Mass:** 770.266872

**Percentage Composition:** C 59.20%; H 5.49%; N 14.53%; O 12.45%; S 8.32%

**Use/Importance:** Vitamin B<sub>1</sub> source. Analgesic

**Physical Description:** Prisms (EtOH)

**Melting Point:** Mp 146-147°

**Hazard & Toxicity:** LD<sub>50</sub> (mus, orl) 9000 mg/kg. LD<sub>50</sub> (mus, ivn) 194 mg/kg

#### References:

Yurugi, S. *et al.*, *Shionogi Kenkyusho Nenpo*, 1968, **27**, 25, (*synth, pharmacol*)

Inoue, K. *et al.*, *Biochem. Med.*, 1973, **8**, 450, (*metab*)

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