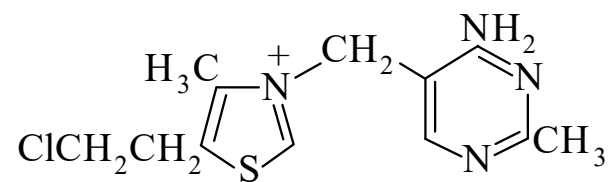




>>Entry Name: Beclotiamine(1+), INN

Synonym(s): 3-[(4-Amino-2-methyl-5-pyrimidinyl)methyl]-5-(2-chloroethyl)-4-methylthiazolium(1+), 9Cl. 5-Chloroethylthiamine, 8Cl



CAS Registry Number: 20166-17-0

Related CAS Registry Numbers(s): 7275-24-3

Molecular Formula: $C_{12}H_{16}ClN_4S^{+}$

Molecular Weight: 283.804

Accurate Mass: 283.078418

Percentage Composition: C 50.79%; H 5.68%; Cl 12.49%; N 19.74%; S 11.30%

Use/Importance: Coccidiostat for poultry

Calculated Log P Data: Log P -2.21 (uncertain value) (calc)

>>Derivative: Chloride

Synonym(s): Chlorothiamine. Clotiamine

CAS Registry Number: 13471-78-8

Molecular Formula: $C_{12}H_{16}Cl_2N_4S$

Molecular Weight: 319.257

Accurate Mass: 318.04727

Percentage Composition: C 45.15%; H 5.05%; Cl 22.21%; N 17.55%; S 10.04%

Hazard & Toxicity: LD₅₀ (rat, ivn) 60.5 mg/kg

>>Derivative: 1,5-Naphthalenedisulfonate

Melting Point: Mp 276 dec.°

References:

U.K. Pat., 1966, *Sankyo*, 1 141 055; *CA*, **71**, 111875z, (*synth, pharmacol*)

Levorato, C. *et al.*, *J. Chromatogr.*, 1968, **32**, 771, (*tlc*)

Yamazaki, M. *et al.*, *Poultry Sci.*, 1971, **50**, 1415, (*metab, tox*)