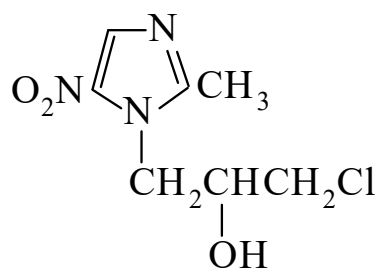




>>Entry Name: Ornidazole, INN, USAN

Synonym(s): α -(Chloromethyl)-2-methyl-5-nitro-1*H*-imidazole-1-ethanol, 9Cl, 8Cl. 1-Chloro-3-(2-methyl-5-nitro-1-imidazolyl)-2-propanol. Betiral. Biteral. Danubial. Kolpicid. Madelen. Ornidal. Tibal. Tiberol. Tinerol. Ro 7-0207



CAS Registry Number: 16773-42-5

Molecular Formula: C₇H₁₀ClN₃O₃

Molecular Weight: 219.627

Accurate Mass: 219.041069

Percentage Composition: C 38.28%; H 4.59%; Cl 16.14%; N 19.13%; O 21.85%

Use/Importance: Antiprotozoal agent. Also active against anaerobic bacteria

Calculated Log P Data: Log P -0.33 (calc)

Hazard & Toxicity: LD₅₀ (rat, orl) 1780 mg/kg. Exp. reprod. effects (antifertility agent in male rats). Mutagenic props.

Sigma: O5879

>>Variant: (±)-form

Molecular Formula: C₇H₁₀ClN₃O₃

Molecular Weight: 219.627

Accurate Mass: 219.041069

Percentage Composition: C 38.28%; H 4.59%; Cl 16.14%; N 19.13%; O 21.85%

Physical Description: Cryst. (toluene)

Melting Point: Mp 78°

References:

- Hoffer, M. *et al.*, *J. Med. Chem.*, 1974, **17**, 1019, (*synth, pharmacol*)
Nagarajan, K. *et al.*, *Indian J. Chem., Sect. B*, 1982, **21**, 1006, (*cmr, pmr, uv, ms*)
Chen, B.C. *et al.*, *Helv. Chim. Acta*, 1983, **66**, 1537, (*N-15 nmr*)
McClain, R.M. *et al.*, *Toxicol. Appl. Pharmacol.*, 1988, **92**, 488, (*tox*)
Yeung, C.H. *et al.*, *J. Reprod. Fertil.*, 1995, **103**, 257; 1996, **106**, 231, (*tox*)
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