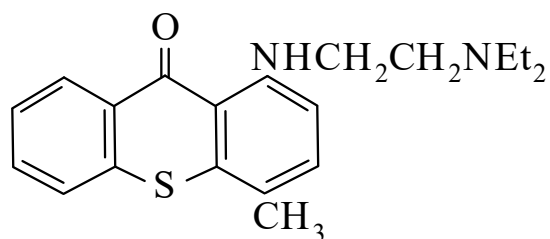




>>Entry Name: **Lucanthone**, BAN, INN

Synonym(s): 1-[[2-(Diethylamino)ethyl]amino]-4-methyl-9*H*-thioxanthen-9-one, 9Cl. BW 57-223



CAS Registry Number: 479-50-5

Molecular Formula: C₂₀H₂₄N₂OS

Molecular Weight: 340.488

Accurate Mass: 340.160933

Percentage Composition: C 70.55%; H 7.10%; N 8.23%; O 4.70%; S 9.42%

Use/Importance: Drug formerly used in treatment of schistosomiasis

Physical Description: Yellow cryst. (EtOH aq.)

Melting Point: Mp 64-65°

Calculated Log P Data: Log P 4.19 (calc)

Hazard & Toxicity: Mutagenic props.

>>Derivative: Hydrochloride

Synonym(s): **Lucanthone hydrochloride**, USAN. Miracil D. Nilodin. Miracol. Scapuren. Tixantone. BW 57-233. Ms 752. NSC 14574. RP 3735

CAS Registry Number: 548-57-2

Physical Description: Yellow cryst. (EtOH)

Melting Point: Mp 195-197°

Hazard & Toxicity: LD₅₀ (mus, ipr) 181 mg/kg. Mutagenic props.

References:

Sharp, T.M., *J.C.S.*, 1951, 2961, (*synth*)

Blanz, E.J. *et al.*, *J. Med. Chem.*, 1963, **6**, 185, (*synth*)

Hirschberg, E., *Antibiotics (N.Y.)*, 1975, **3**, 274, (*rev*)

Neidle, S., *Biochim. Biophys. Acta*, 1976, **454**, 207, (*cryst struct*)

Martindale, The Extra Pharmacopoeia, 30th edn., *Pharmaceutical Press*, 1993, 46

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., *Van Nostrand Reinhold*, 1992, DHU000; SBE500