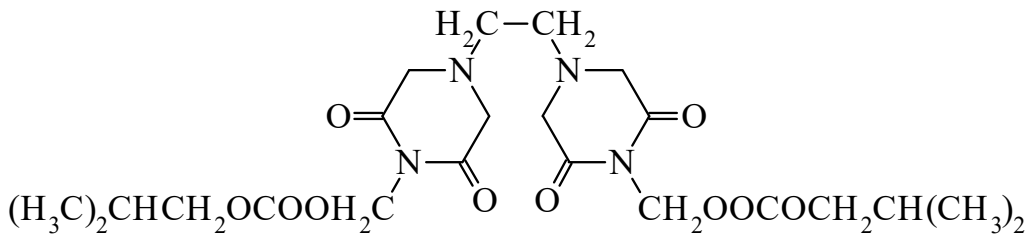
>>**Entry Name: Sobuzoxane,** INN

Synonym(s): 1,2-Ethanediylbis[(2,6-dioxo-4,1-piperazinediyl)methylene]bis[2-methylpropylcarbonate], 9CI. 4,4'-(1,2-Ethanediyl)bis[1-isobutoxycarbonyloxymethyl-2,6-piperazinedione]. Perazolin. MST 16



CAS Registry Number: 98631-95-9

Molecular Formula: $C_{22}H_{34}N_4O_{10}$
Molecular Weight: 514.531
Accurate Mass: 514.227496
Percentage Composition: C 51.36%; H 6.66%; N 10.89%; O 31.10%
Use/Importance: Topoisomerase II inhibitor. Antineoplastic agent
Physical Description: Cryst. (EtOH)
Development Status: Launched 1994 (Japan)
Melting Point: Mp 132-133°
Solubility: Insol. H_2O
Calculated Log P Data: Log P 5.21 (uncertain value) (calc)
Hazard & Toxicity: LD_{50} (rat, orl) >5000 mg/kg. Exp. reprod. and teratogenic effects

References:

Ruyun, J., *Drugs of the Future*, 1986, **11**, 267, *(rev)*
Hoshino, A. *et al.*, *Chemotherapy (Basel)*, 1988, **36**, 345; 349, *(pharmacol)*
Cai, J.C. *et al.*, *Chem. Pharm. Bull.*, 1989, **37**, 2976, *(synth, ir, pmr)*
Narita, T. *et al.*, *Cancer Chemother. Pharmacol.*, 1990, **26**, 193; 1991, **28**, 235, *(pharmacol)*
Ohno, R. *et al.*, *J. Natl. Cancer Inst.*, 1992, **84**, 435, *(clin trial)*