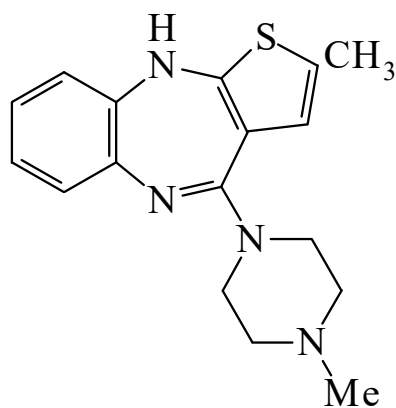




>>Entry Name: Olanzapine, BAN, INN, USAN

Synonym(s): 2-Methyl-4-(4-methyl-1-piperazinyl)-10*H*-thieno[2,3-*b*][1,5]benzodiazepine, 9Cl. Zyprexa. LY 170053



CAS Registry Number: 132539-06-1

Molecular Formula: C<sub>17</sub>H<sub>20</sub>N<sub>4</sub>S

Molecular Weight: 312.438

Accurate Mass: 312.140866

Percentage Composition: C 65.35%; H 6.45%; N 17.93%; S 10.26%

Biological Use/Importance: 5HT<sub>2</sub> and dopamine D<sub>2</sub> receptor antagonist. Antipsychotic agent, used in the treatment of schizophrenia and bipolar disorder

Physical Description: Cryst. (MeCN)

Development Status: Marketed drug. Launched 1996 (UK) (Eli Lilly). Worldwide 10th best selling prescription drug (\$2.37 bn) (Eli Lilly) (2000, Pharma Business)

Melting Point: Mp 195°

Calculated Log P Data: Log P 3.53 (uncertain value) (calc)

#### References:

*Eur. Pat.*, 1991, Lilly, 454 436; *CA*, **116**, 83703u, (*synth, pharmacol*)

Moore, N.A. *et al.*, *J. Pharmacol. Exp. Ther.*, 1992, **262**, 545, (*pharmacol*)

Fulle, R.W. *et al.*, *Res. Commun. Chem. Pathol. Pharmacol.*, 1992, **77**, 87, (*pharmacol*)

Fulton, B. *et al.*, *Drugs*, 1997, **53**, 281-298, (*rev*)

*Martindale, The Extra Pharmacopoeia*, 32nd edn., *Pharmaceutical Press*, 1999, 683

Bhana, N. *et al.*, *Drugs*, 2001, **61**, 111-161, (*rev*)