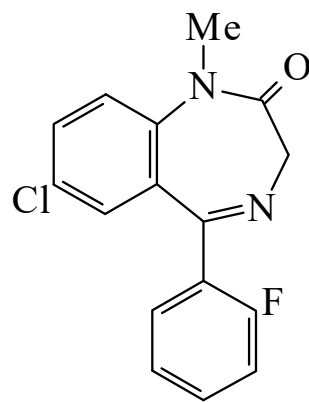




>>Entry Name: Fludiazepam, INN, JAN

Synonym(s): 7-Chloro-5-(2-fluorophenyl)-1,3-dihydro-1-methyl-2H-1,4-benzodiazepin-2-one, 9Cl. ID-540. Elspan. Erispan. Ro 5-3438



CAS Registry Number: 3900-31-0

Molecular Formula: C₁₆H₁₂ClFN₂O

Molecular Weight: 302.735

Accurate Mass: 302.062218

Percentage Composition: C 63.48%; H 4.00%; Cl 11.71%; F 6.28%; N 9.25%; O 5.28%

Use/Importance: Benzodiazepine receptor agonist. Antidepressant, tranquilliser

Physical Description: Prisms (hexane/2-propanol)

Melting Point: Mp 88-92°

Calculated Log P Data: Log P 3.23 (calc)

Hazard & Toxicity: LD₅₀ (rat, orl) 1740 mg/kg

>>Derivative: N-De-Me

CAS Registry Number: 2886-65-9

Molecular Formula: C₁₅H₁₀ClFN₂O

Molecular Weight: 288.708

Accurate Mass: 288.046568

Percentage Composition: C 62.40%; H 3.49%; Cl 12.28%; F 6.58%; N 9.70%; O 5.54%

Use/Importance: Parent nucleus of Fludiazepam, also of Flurazepam [BNH87-J](#), Flutoprazepam [BNW78-E](#), BSW 15-S, Kenazepam [GXJ43-Y](#) and Proflazepam [BRB89-J](#)

Physical Description: Cryst. (C₆H₆/hexane)

Melting Point: Mp 205-206°

References:

Sternbach, L.H. *et al.*, *J.O.C.*, 1962, **27**, 3788-3796, (*synth*)

Asami, Y. *et al.*, *Arzneim.-Forsch.*, 1974, **24**, 1563, (*synth, ir, pmr, pharmacol*)

Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 595

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, FDB100