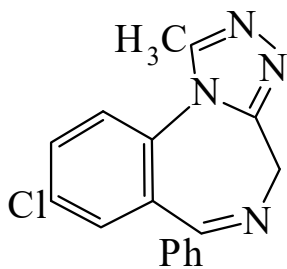




>>Entry Name: **Alprazolam**, BAN, INN, JAN, USAN

Synonym(s): 8-Chloro-1-methyl-6-phenyl-4*H*-[1,2,4]triazolo[4,3-*a*][1,4]benzodiazepine, 9Cl, 8Cl. Adax. Alplax. Alprox. Alzam. Cassadan. Esparon. Frontal. Gerax. Kalma. Panix. Ralozam. Solanax. Tafil. Xanax. Xanor. Zopax. Zotran. Many other names



CAS Registry Number: 28981-97-7

Molecular Formula: C₁₇H₁₃ClN₄

Molecular Weight: 308.769

Accurate Mass: 308.082873

Percentage Composition: C 66.13%; H 4.24%; Cl 11.48%; N 18.15%

Biological Use/Importance: Benzodiazepine receptor agonist. Tranquilliser, muscle relaxant

Physical Description: Cryst. (EtOAc)

Development Status: Marketed drug. Approved for pharmaceutical use 1985

Melting Point: Mp 229-230°

Calculated Log P Data: Log P 2.48 (uncertain value) (calc)

Hazard & Toxicity: LD₅₀ (rat, orl) 1220 mg/kg. Exp. reprod. and teratogenic effects

Sigma: A8800

>>Derivative: α-Hydroxy

Synonym(s): 8-Chloro-6-phenyl-4*H*-[1,2,4]triazolo[4,3-*a*][1,4]benzodiazepine-1-methanol, 9Cl. α-Hydroxyalprazolam. GP 55129

CAS Registry Number: 37115-43-8

Molecular Formula: C₁₇H₁₃ClN₄O

Molecular Weight: 324.769

Accurate Mass: 324.077788

Percentage Composition: C 62.87%; H 4.03%; Cl 10.92%; N 17.25%; O 4.93%

Source/Synthesis: Major metab. of alprazolam in man

Biological Use/Importance: Tranquilliser

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 209-211°

Sigma: H9149

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