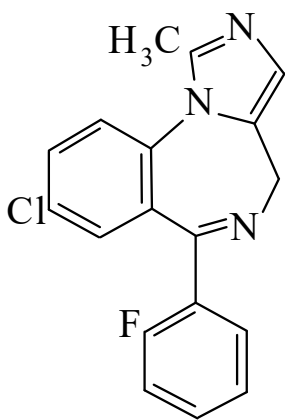




>>Entry Name: Midazolam, BAN, INN

Synonym(s): 8-Chloro-6-(2-fluorophenyl)-1-methyl-4*H*-imidazo[1,5-*a*][1,4]benzodiazepine, 9Cl. Ro 21-3981



CAS Registry Number: 59467-70-8

Molecular Formula: C₁₈H₁₃ClFN₃

Molecular Weight: 325.772

Accurate Mass: 325.078202

Percentage Composition: C 66.36%; H 4.02%; Cl 10.88%; F 5.83%; N 12.90%

Biological Use/Importance: Benzodiazepine receptor agonist. Anaesthetic, hypnotic

Development Status: Marketed drug. Approved for pharmaceutical use 1985

Melting Point: Mp 158-160°

Calculated Log P Data: Log P 3.75 (uncertain value) (calc)

Hazard & Toxicity: LD₅₀ (rat, orl) 1600 mg/kg

>>Derivative: Maleate

Synonym(s): Midazolam maleate, USAN. Dormicum. Dormonid. Hypnovel. Ipnovel. Versed

CAS Registry Number: 59467-94-6

Sigma: M2419

>>Derivative: Hydrochloride

Synonym(s): Midazolam hydrochloride, USAN. Hypnovel. Rocam

CAS Registry Number: 59467-96-8

>>Derivative: 1"-Hydroxy

Synonym(s): 8-Chloro-6-(2-fluorophenyl)-4*H*-imidazo[1,5-*a*][1,4]benzodiazepine-1-methanol, 9Cl

CAS Registry Number: 59468-90-5

Molecular Formula: C₁₈H₁₃ClFN₃O

Molecular Weight: 341.771

Accurate Mass: 341.073117

Percentage Composition: C 63.26%; H 3.83%; Cl 10.37%; F 5.56%; N 12.29%; O 4.68%

Source/Synthesis: Metab. of Midazolam

Physical Description: Cryst. (CH₂Cl₂/MeOH)

Melting Point: Mp 258-260°

>>Derivative: 1"-Acetoxy

CAS Registry Number: 59468-89-2

Molecular Formula: C₂₀H₁₅ClFN₃O₂

Molecular Weight: 383.809

Accurate Mass: 383.083682

Percentage Composition: C 62.59%; H 3.94%; Cl 9.24%; F 4.95%; N 10.95%; O 8.34%

Physical Description: Cryst. (EtOAc/Et₂O)

Melting Point: Mp 151-152°

References: