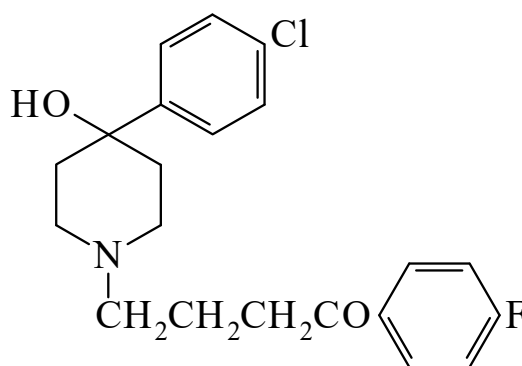




>>Entry Name: **Haloperidol**, BAN, INN, JAN, USAN

Synonym(s): 4-[4-(4-Chlorophenyl)-4-hydroxy-1-piperidinyl]-4'-(4-fluorophenyl)-1-butanone, 9Cl. 4-[4-*p*-(Chlorophenyl)-4-hydroxypiperidinol]-4'-fluorobutyrophenone, 8Cl. 4-(*p*-Chlorophenyl)-1-(3-*p*-fluorobenzoylpropyl)-4-hydroxypiperidine. Dozic. Fortunan. Haldol. Serenace. Many other names



CAS Registry Number: 52-86-8

Molecular Formula: C₂₁H₂₃ClFNO₂

Molecular Weight: 375.869

Accurate Mass: 375.140134

Percentage Composition: C 67.11%; H 6.17%; Cl 9.43%; F 5.05%; N 3.73%; O 8.51%

Use/Importance: Dopaminergic antagonist with activity at sigma and NMDA receptors. Tranquilliser, antipsychotic. Also reported to be a potassium channel (IK_{Ca}) blocker

Melting Point: Mp 148-149.4°

Calculated Log P Data: Log P 3.52 (calc)

Other Data: Metab. to potentially neurotoxic pyridinium deriv. Possible link to adverse effects

Hazard & Toxicity: Extrapyramidal disorders reported when used therapeutically. LD₅₀ (rat, orl) 128 mg/kg. Exp. reprod. and teratogenic effects

Aldrich: 34308-0

Sigma: H0773

>>Derivative: Hydrochloride

CAS Registry Number: 1511-16-6

Melting Point: Mp 226-227°

Solubility: V. sol. H₂O

>>Derivative: Propanoyl

Synonym(s): Haloperidol propionate. NIH 10494

CAS Registry Number: 109765-78-8

Extra CAS Registry Numbers(s): 109765-81-3

Molecular Formula: C₂₄H₂₇ClFNO₃

Molecular Weight: 431.933

Accurate Mass: 431.166349

Percentage Composition: C 66.74%; H 6.30%; Cl 8.21%; F 4.40%; N 3.24%; O 11.11%

Physical Description: Cryst. (EtOH) (as hydrochloride)

Melting Point: Mp 212-213° (hydrochloride)

>>Derivative: Decanoyl

Synonym(s): Haloperidol decanoate, USAN. Halomonth. Haldol decanoate. KD 136. R 13672

CAS Registry Number: 74050-97-8

Molecular Formula: C₃₁H₄₁ClFNO₃

Molecular Weight: 530.121

Accurate Mass: 529.275899

Percentage Composition: C 70.24%; H 7.80%; Cl 6.69%; F 3.58%; N 2.64%; O 9.05%

Use/Importance: Antipsychotic agent

Calculated Log P Data: Log P 8.61 (uncertain value) (calc)

Hazard & Toxicity: LD₅₀ (rat, orl) 1717 mg/kg