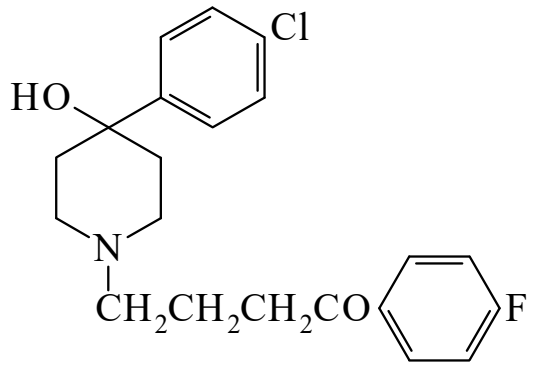
>>**Entry Name: Haloperidol,** BAN, INN, JAN, USAN
Synonym(s): 4-[4-(4-Chlorophenyl)-4-hydroxy-1-piperidinyl]-4'-(4-fluorophenyl)-1-butanone, 9CI. 4-[4-*p*-(Chlorophenyl)-4-hydroxypiperidinol]-4'-fluorobutyrophenone, 8CI. 4-(*p*-Chlorophenyl)-1-(3-*p*-fluorobenzoylpropyl)-4-hydroxypiperidine. Dozic. Fortunan. Haldol. Serenace. Many other names



CAS Registry Number: 52-86-8

Molecular Formula: $C_{21}H_{23}ClFNO_2$
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. LD_{50} (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. H_2O

>>**Derivative:** Propanoyl
Synonym(s): Haloperidol propionate. NIH 10494

CAS Registry Number: 109765-78-8
Extra CAS Registry Numbers(s): 109765-81-3
Molecular Formula: $C_{24}H_{27}ClFNO_3$
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: $C_{31}H_{41}ClFNO_3$
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: LD_{50} (rat, orl) 1717 mg/kg