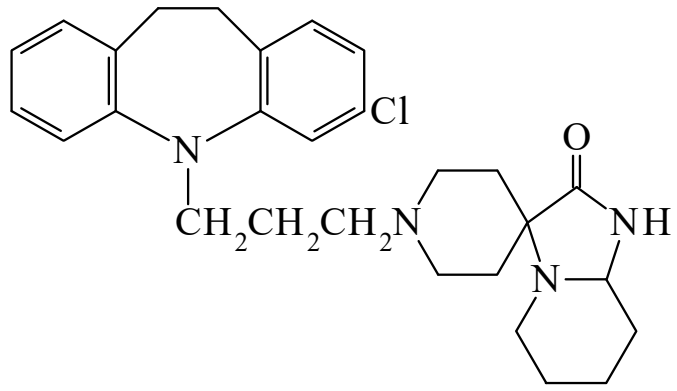
>>**Entry Name: Mosapramine,** INN
Synonym(s): 1'-[3-(3-Chloro-10,11-dihydro-5*H*-dibenz[*b*,*f*]azepin-5-yl)propyl]hexahydrospiro[imidazo[1,2-*a*]pyridine-3(2*H*),4'-piperidin]-2-one, 9Cl. 3-Chloro-5-[3-(2-oxo-1,2,3,5,6,7,8,8a-octahydroimidazo[1,2-*a*]pyridine-3-spiro-4'-piperidino)propyl]-10,11-dihydro-5*H*-dibenz[*b*,*f*]azepine. Clospipramine. Y 516



CAS Registry Number: 123435-19-8
Related CAS Registry Numbers(s): 120167-35-3 120181-35-3

Molecular Formula: $C_{28}H_{35}ClN_4O$
Molecular Weight: 479.063
Accurate Mass: 478.249938
Percentage Composition: C 70.20%; H 7.36%; Cl 7.40%; N 11.70%; O 3.34%
Use/Importance: Dopamine D_2-receptor antagonist. Neuroleptic
Development Status: Launched 1991 (Japan)
Calculated Log P Data: Log P 6.49 (uncertain value) (calc)
Other Data: Minor differences only in pharmacol. of enantiomers

>>**Variant:** (*R*)-form

Molecular Formula: $C_{28}H_{35}ClN_4O$
Molecular Weight: 479.063
Accurate Mass: 478.249938
Percentage Composition: C 70.20%; H 7.36%; Cl 7.40%; N 11.70%; O 3.34%
Physical Description: Cryst. (EtOAc)
Melting Point: Mp 145-147°
Optical Rotation: $[\alpha]_D$ –39.6 (c, 1 in $CHCl_3$) (98% ee)

>>**Derivative:** Hydrochloride (1:2)

Melting Point: Mp 270-272 dec.°
Optical Rotation: $[\alpha]_D$ +8.6 (c, 0.5 in H_2O)

>>**Variant:** (*S*)-form

Molecular Formula: $C_{28}H_{35}ClN_4O$
Molecular Weight: 479.063
Accurate Mass: 478.249938
Percentage Composition: C 70.20%; H 7.36%; Cl 7.40%; N 11.70%; O 3.34%
Physical Description: Cryst. (EtOAc)
Melting Point: Mp 142-143°
Optical Rotation: $[\alpha]_D$ +39.2 (c, 1 in $CHCl_3$) (97% ee)

>>**Derivative:** Hydrochloride (1:2)

Melting Point: Mp 269-270 dec.°
Optical Rotation: $[\alpha]_D$ –6 (c, 0.5 in H_2O)

>>**Variant:** (±)-form

CAS Registry Number: 89419-40-9
Molecular Formula: $C_{28}H_{35}ClN_4O$
Molecular Weight: 479.063
Accurate Mass: 478.249938
Percentage Composition: C 70.20%; H 7.36%; Cl 7.40%; N 11.70%; O 3.34%

>>**Derivative:** Hydrochloride (1:2)
Synonym(s): Mosapramine hydrochloride, JAN**.** Cremin