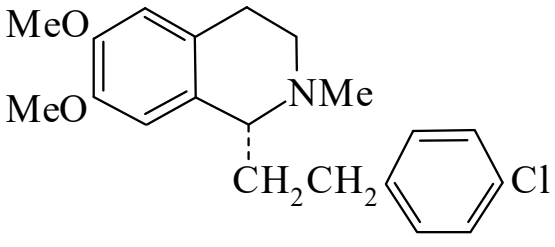
>>**Entry Name: Metofoline,** BAN, INN
Synonym(s): 1-[2-(4-Chlorophenyl)ethyl]-1,2,3,4-tetrahydro-6,7-dimethoxy-2-methylisoquinoline, 9Cl. 1-(*p*-Chlorophenethyl)-1,2,3,4-tetrahydro-6,7-dimethoxy-2-methylisoquinoline, 8Cl. **Methopholine,** USAN. Versidyne. ARC I-K-1. NIH 7672. Ro 4-1778



(*R*)-*form*

CAS Registry Number: 2154-02-1

Molecular Formula: $C_{20}H_{24}ClNO_2$
Molecular Weight: 345.868
Accurate Mass: 345.149556
Percentage Composition: C 69.45%; H 6.99%; Cl 10.25%; N 4.05%; O 9.25%
Use/Importance: Analgesic
Development Status: No longer marketed
Calculated Log P Data: Log P 4.97 (calc)
Hazard & Toxicity: LD_{50} (rat, orl) 400 mg/kg. LD_{50} (rat, ipr) 100 mg/kg

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

Molecular Formula: $C_{20}H_{24}ClNO_2$
Molecular Weight: 345.868
Accurate Mass: 345.149556
Percentage Composition: C 69.45%; H 6.99%; Cl 10.25%; N 4.05%; O 9.25%
Melting Point: Mp 79-80°
Boiling Point: $Bp_{0.15}$ 194°
Optical Rotation: $[\alpha]_D^{25}$ –16 (c, 1.0 in MeOH)

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

Molecular Formula: $C_{20}H_{24}ClNO_2$
Molecular Weight: 345.868
Accurate Mass: 345.149556
Percentage Composition: C 69.45%; H 6.99%; Cl 10.25%; N 4.05%; O 9.25%
Boiling Point: $Bp_{0.06}$ 196-198°
Optical Rotation: $[\alpha]_D^{25}$ +17.9 (c, 1.0 in MeOH)

>>**Variant:** (±)-form

Molecular Formula: $C_{20}H_{24}ClNO_2$
Molecular Weight: 345.868
Accurate Mass: 345.149556
Percentage Composition: C 69.45%; H 6.99%; Cl 10.25%; N 4.05%; O 9.25%
Melting Point: Mp 109-110°

>>**Derivative:** Hydrochloride

Melting Point: Mp 105-106°

References:

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