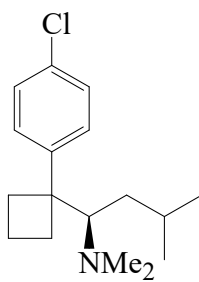




>>Entry Name: Sibutramine, BAN, INN

Synonym(s): 1-(4-Chlorophenyl)-*N,N*-dimethyl- α -(2-methylpropyl)cyclobutanemethanamine, 9Cl. 1-(1-*p*-Chlorophenylcyclobutyl)-3-methylbutyldimethylamine. Meridia. Reductil



(*R*)-form

CAS Registry Number: 106650-56-0

Related CAS Registry Numbers(s): 125494-59-9

Molecular Formula: C₁₇H₂₆ClN

Molecular Weight: 279.852

Accurate Mass: 279.175376

Percentage Composition: C 72.96%; H 9.36%; Cl 12.67%; N 5.01%

Biological Use/Importance: Monoamine reuptake inhibitor; antidepressant, anorexic. Used for the treatment of obesity

Development Status: Approved for clinical use by FDA (1997) and in Switzerland and Germany (1999)

Calculated Log P Data: Log P 5.31 (calc)

Other Data: Both enantiomers are claimed to be more effective than the racemate

>>Variant: (*R*)-form

CAS Registry Number: 154752-44-0

Molecular Formula: C₁₇H₂₆ClN

Molecular Weight: 279.852

Accurate Mass: 279.175376

Percentage Composition: C 72.96%; H 9.36%; Cl 12.67%; N 5.01%

Optical Rotation: [α]_D +3.3 (c, 1.5 in H₂O) (>95.5% ee)

>>Derivative: Hydrochloride

CAS Registry Number: 154752-45-1

Optical Rotation: [α]_D +3.3 (c, 1.5 in H₂O) (>99.5% ee)

>>Derivative: *N*-De-Me

Synonym(s): Desmethysibutramine

CAS Registry Number: 259731-40-3

Extra CAS Registry Numbers(s): 229639-54-7

Molecular Formula: C₁₆H₂₄ClN

Molecular Weight: 265.825

Accurate Mass: 265.159726

Percentage Composition: C 72.29%; H 9.10%; Cl 13.34%; N 5.27%

Optical Rotation: [α]_D +5 (c, 0.5 in H₂O) (>99% ee)

Other Data: CAS no. refers to hydrochloride

>>Variant: ($\pm$)-form

Molecular Formula: C₁₇H₂₆ClN

Molecular Weight: 279.852

Accurate Mass: 279.175376

Percentage Composition: C 72.96%; H 9.36%; Cl 12.67%; N 5.01%

>>Derivative: Hydrochloride

Synonym(s): Sibutramine hydrochloride, USAN. BTS 54524

CAS Registry Number: 84485-00-7

Physical Description: Yellow cryst. (Me₂CO)

Melting Point: Mp 195-197°

References: