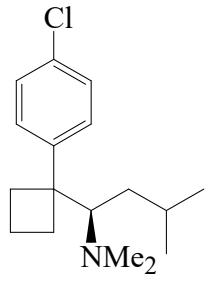
>>**Entry Name: Sibutramine,** BAN, INN

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: $C_{17}H_{26}ClN$
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: $C_{17}H_{26}ClN$
Molecular Weight: 279.852
Accurate Mass: 279.175376
Percentage Composition: C 72.96%; H 9.36%; Cl 12.67%; N 5.01%
Optical Rotation: $[\alpha]_D$ +3.3 (c, 1.5 in H_2O) (>95.5% ee)

>>**Derivative:** Hydrochloride

CAS Registry Number: 154752-45-1
Optical Rotation: $[\alpha]_D$ +3.3 (c, 1.5 in H_2O) (>99.5% ee)

>>**Derivative:** *N*-De-Me
Synonym(s): Desmethylsibutramine

CAS Registry Number: 259731-40-3
Extra CAS Registry Numbers(s): 229639-54-7
Molecular Formula: $C_{16}H_{24}ClN$
Molecular Weight: 265.825
Accurate Mass: 265.159726
Percentage Composition: C 72.29%; H 9.10%; Cl 13.34%; N 5.27%
Optical Rotation: $[\alpha]_D$ +5 (c, 0.5 in H_2O) (>99% ee)
Other Data: CAS no. refers to hydrochloride

>>**Variant:** (±)-form

Molecular Formula: $C_{17}H_{26}ClN$
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. (Me_2CO)
Melting Point: Mp 195-197°

References: