

## Venlafaxine (Cas No 93413-69-5)



Venlafaxine

CAS number 93413-69-5

Formula Structure :

Systematic (IUPAC) name

1-[2-dimethylamino-1-(4-methoxyphenyl)-ethyl]cyclohexanol

Identifiers

CAS number 93413-69-5

ATC code N06AX16

PubChem 5656

DrugBank APRD00125

ChemSpider 56641

Chemical data

Formula C<sub>17</sub>H<sub>27</sub>NO<sub>2</sub> Mol. mass 277.402 g/mol

SMILES eMolecules & PubChem

Pharmacokinetic data

Bioavailability 45%

Protein binding 27%

Metabolism Hepatic

Half life 5 ± 2 hours (parent compound); 11 ± 2 hours (active metabolite)

Excretion Renal

Venlafaxine is an extended-release capsule for oral administration that contains venlafaxine hydrochloride, a structurally novel antidepressant. It is designated (R/S)-1-[2-(dimethylamino)-1-(4-methoxyphenyl)ethyl] cyclohexanol hydrochloride or (±)-1-[α-[(dimethylamino)methyl]-p-methoxybenzyl] cyclohexanol hydrochloride and has the empirical formula of C<sub>17</sub>H<sub>27</sub>NO<sub>2</sub> HCl.

Its molecular weight is 313.87. Venlafaxine hydrochloride is a white to off-white crystalline solid with a solubility of 572 mg/mL in water (adjusted to ionic strength of 0.2 M with sodium chloride).

Its octanol : water (0.2 M sodium chloride) partition coefficient is 0.43.

