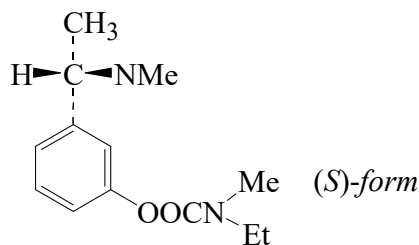




>>Entry Name: Rivastigmine

Synonym(s): 3-[1-(Dimethylamino)ethyl]phenyl ethylmethylcarbamate, 9Cl. *N*-Ethyl-3-[(1-dimethylamino)ethyl]-*N*-methylphenylcarbamate. Exelon. ENA 713. SDZ-ENA 713



CAS Registry Number: 105601-20-5

Related CAS Registry Numbers(s): 105601-14-7

Molecular Formula: C₁₄H₂₂N₂O₂

Molecular Weight: 250.34

Accurate Mass: 250.168128

Percentage Composition: C 67.17%; H 8.86%; N 11.19%; O 12.78%

Biological Use/Importance: Acetylcholinesterase inhibitor. Potentially useful for the treatment of Alzheimers disease

Development Status: Marketed drug. Approved by FDA (2000)

>>Variant: (S)-form

CAS Registry Number: 123441-03-2

Molecular Formula: C₁₄H₂₂N₂O₂

Molecular Weight: 250.34

Accurate Mass: 250.168128

Percentage Composition: C 67.17%; H 8.86%; N 11.19%; O 12.78%

Optical Rotation: [α]_D -32 (c, 5.0 in MeOH) (99.3% ee)

Other Data: Pharmacol. active isomer

>>Derivative: Tartrate

CAS Registry Number: 129101-54-8

Optical Rotation: [α]_D +4.7 (c, 5.0 in MeOH)

>>Variant: (±)-form

CAS Registry Number: 129101-52-6

Molecular Formula: C₁₄H₂₂N₂O₂

Molecular Weight: 250.34

Accurate Mass: 250.168128

Percentage Composition: C 67.17%; H 8.86%; N 11.19%; O 12.78%

Boiling Point: Bp_{0.2} 140-143°

References:

- Weinstock, M. *et al.*, *Adv. Behav. Biol.*, 1986, **29**, 539-549, (*synth, pharmacol*)
Eur. Pat., 1986, *Yissum*, 193 926; *CA*, **106**, 4687j, (*synth, pharmacol*)
Amstutz, R. *et al.*, *Helv. Chim. Acta*, 1990, **73**, 739-753, (*synth, pmr, ms*)
Enz, A. *et al.*, *Ann. N.Y. Acad. Sci.*, 1991, **640**, 272-275, (*pharmacol*)
Tanaka, K. *et al.*, *Neurochem. Res.*, 1994, **19**, 117-122; 1995, **20**, 663-667, (*pharmacol*)
Tse, F.L.S. *et al.*, *Pharm. Res.*, 1998, **15**, 1614-1620, (*metab*)