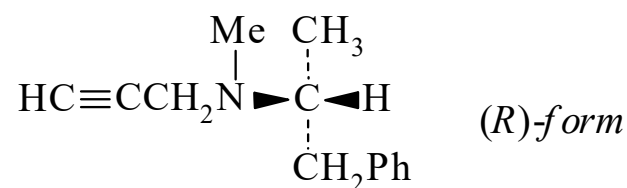




>>Entry Name: Selegiline, BAN, INN

Synonym(s): *N*, $\alpha$ -Dimethyl-*N*-propynylbenzeneethanamine, 9Cl. *N*, $\alpha$ -Dimethyl-*N*-2-propynylphenethylamine, 8Cl. Methyl( $\alpha$ -methylphenethyl)prop-2-ynylamine. *N*-Methyl-*N*-2-propynylamphetamine. Deprenyl. Cardison. Deprenaline



CAS Registry Number: 2323-36-6

Related CAS Registry Numbers(s): 2079-54-1 4528-51-2

Molecular Formula:  $\text{C}_{13}\text{H}_{17}\text{N}$

Molecular Weight: 187.284

Accurate Mass: 187.136099

Percentage Composition: C 83.37%; H 9.15%; N 7.48%

Use/Importance: Antiparkinsonian drug, monoamine oxidase (type B) inhibitor, anorexic agent

Calculated Log P Data: Log P 2.24 (calc)

>>Variant: (R)-form

Synonym(s): L-form

CAS Registry Number: 14611-51-9

Molecular Formula:  $\text{C}_{13}\text{H}_{17}\text{N}$

Molecular Weight: 187.284

Accurate Mass: 187.136099

Percentage Composition: C 83.37%; H 9.15%; N 7.48%

Physical Description: Oil

Boiling Point:  $\text{Bp}_5$  92-93°

Optical Rotation:  $[\alpha]_{\text{D}}^{20} -11.2$

Other Data: Pharmacol. active isomer

>>Derivative: Hydrochloride

Synonym(s): Selegiline hydrochloride, USAN. Eldepryl. Jumex. Lesotal $\ddagger$ . Tumex. E 250

CAS Registry Number: 14611-52-0

Melting Point: Mp 170-171°

Optical Rotation:  $[\alpha]_{\text{D}}^{22} -14.8$  ( $\text{H}_2\text{O}$ )

Hazard & Toxicity: LD<sub>50</sub> (rat, scu) 280 mg/kg. LD<sub>50</sub> (rat, ivn) 81 mg/kg

>>Variant: (±)-form

CAS Registry Number: 4530-70-5

Molecular Formula:  $\text{C}_{13}\text{H}_{17}\text{N}$

Molecular Weight: 187.284

Accurate Mass: 187.136099

Percentage Composition: C 83.37%; H 9.15%; N 7.48%

Physical Description: Oil

Boiling Point:  $\text{Bp}_5$  103-110°

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