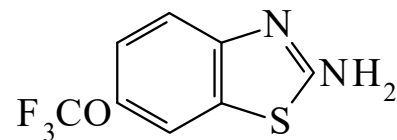




>>Entry Name: **2-Amino-6-(trifluoromethoxy)benzothiazole**

Synonym(s): 6-(Trifluoromethoxy)-2-benzothiazolamine, 9CI. **Riluzole**, BAN, INN, USAN. Rilutek. PK 26124. RP 54274



CAS Registry Number: 1744-22-5

Molecular Formula: C₈H₅F₃N₂OS

Molecular Weight: 234.201

Accurate Mass: 234.007467

Percentage Composition: C 41.03%; H 2.15%; F 24.34%; N 11.96%; O 6.83%; S 13.69%

Use/Importance: Non-competitive antagonist of *N*-methyl-D-aspartate receptors. Anticonvulsant, antiepileptic agent. Used in treatment of amyotrophic lateral sclerosis

Development Status: Launched 1996 (US) (Rhone-Poulenc Rorer)

Melting Point: Mp 117-119°

Calculated Log P Data: Log P 2.67 (calc)

Hazard & Toxicity: LD₅₀ (mus, orl) 67 mg/kg. LD₅₀ (mus, ipr) 46 mg/kg

References:

- Yagupol'skii, L.M. *et al.*, *Zh. Obshch. Khim.*, 1963, **33**, 2301, (*synth*)
Eur. Pat., 1982, *Pharmindustrie*, 50 551; *CA*, **97**, 44352, (*pharmacol*)
Mizoule, J. *et al.*, *Neuropharmacology*, 1985, **24**, 767, (*pharmacol*)
Tsai, C. *et al.*, *Neurol. Neurobiol.*, 1987, **24**, 79, (*pharmacol*)
Mantz, J. *et al.*, *Eur. J. Pharmacol.*, 1994, **257**, R7, (*pharmacol*)
Bensimon, G. *et al.*, *N. Engl. J. Med.*, 1994, **330**, 585, (*clin trial*)
Rowland, L.P., *N. Engl. J. Med.*, 1994, **330**, 636
Mantz, J., *CNS Drug Rev.*, 1996, **2**, 40, (*rev*)