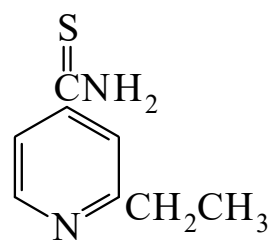




>>Entry Name: 2-Ethyl-4-pyridinecarbothioamide, 9CI

Synonym(s): Ethionamide, BAN, INN, USAN. 2-Ethylisothionicotinamide. 2-Ethyl-4-thiocarbamoylpyridine. α -Ethylisonicotinoylthioamide. Trescatyl. Trecator. Thiodine. Many other names



CAS Registry Number: 536-33-4

Molecular Formula: C₈H₁₀N₂S

Molecular Weight: 166.246

Accurate Mass: 166.056468

Percentage Composition: C 57.80%; H 6.06%; N 16.85%; S 19.29%

Use/Importance: Antitubercular drug. Used as a 0.01% soln. in EtOH for photometric detn. of Pd ($\lambda_{\max}$ 400 nm)

Physical Description: Yellow cryst. (EtOH)

Development Status: Not marketed

Melting Point: Mp 164-166 dec.°

Solubility: V. spar. sol. Et₂O, spar. sol. MeOH, EtOH, sol. Py

Calculated Log P Data: Log P 1.73 (calc)

Hazard & Toxicity: Adverse gastrointestinal, CNS and hepatic effects reported. Can also cause peripheral and optic neuropathies. LD₅₀ (rat, orl) 1320 mg/kg. Exp. carcinogenic and teratogenic data

Sigma: E6005

References:

Libermann, D. *et al.*, *Bull. Soc. Chim. Fr.*, 1958, 687, (*synth*)

U.K. Pat., 1958, 800 250; *CA*, **53**, 4309b, (*synth*)

Popper, E. *et al.*, *Rev. Roum. Chim.*, 1970, **15**, 115

Alleaume, M. *et al.*, *C. R. Hebd. Seances Acad. Sci. Ser. C*, 1971, **273**, 1747, (*cryst struct*)

Bernheim, F., *Drill's Pharmacol. Med.*, 4th edn., McGraw-Hill, New York, 1971, 1713, (*pharmacol*)

IARC Monog., 1977, **13**, 83; *Suppl.* 7, 63, (*rev, tox*)

Wang, C.-H. *et al.*, *Heterocycles*, 1979, **12**, 1191, (*synth*)

Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 6th edn., Akademie-Verlag, 1987, 919, (*synonyms*)

Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 166

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, EPQ000