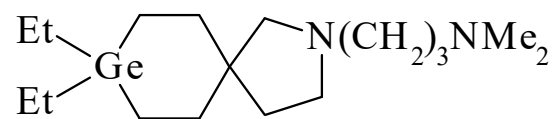




>>Entry Name: Spirogermanium, BAN, INN

Synonym(s): 8,8-Diethyl-*N,N*-dimethyl-2-aza-8-germaspiro[4.5]decane-2-propanamine, 9CI



CAS Registry Number: 41992-23-8

Molecular Formula: C₁₇H₃₆GeN₂

Molecular Weight: 341.095

Accurate Mass: 342.209025

Percentage Composition: C 59.86%; H 10.64%; Ge 21.29%; N 8.21%

Source/Synthesis: Synth. from LiAlH₄ and *N*-(3-dimethylaminopropyl)-8,8-diethyl-8-germa-2-azaspiro[4.5]decane-1,3-dione in C₆H₆/Et₂O

Use/Importance: Antineoplastic drug, shows antiarthritic props.

Physical Description: Oil

Boiling Point: Bp_{0.3} 106-109°

Calculated Log P Data: Log P 5.07 (calc)

>>Derivative: Hydrochloride (1:2)

Synonym(s): Spirogermanium hydrochloride, USAN. NSC 192965. S 99A. Spiro 32

CAS Registry Number: 41992-22-7

Physical Description: Cryst.

Melting Point: Mp 287-288°

Hazard & Toxicity: Central and peripheral neurotoxic adverse effects when used therapeutically. LD₅₀ (rat, scu) 210 mg/kg

References:

Rice, L.M. *et al.*, *J. Het. Chem.*, 1974, **11**, 1041, (*synth, pharmacol*)

Drugs of the Future, 1980, **5**, 149, (*rev*)

Slavik, M. *et al.*, *Drugs Exp. Clin. Res.*, 1982, **8**, 379, (*pharmacol*)

Slavik, M. *et al.*, *Invest. New Drugs*, 1983, **1**, 225, (*rev, pharmacol*)

Ward, S.G. *et al.*, *Metal-Based Anti-Tumour Drugs*, (ed. Gielen, M.F.), Freund Publishing House, London, 1988, 28, (*rev*)

Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 500

Köpf-Maier, P., *Eur. J. Clin. Pharmacol.*, 1994, **47**, 1, (*rev, pharmacol*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, SLD800