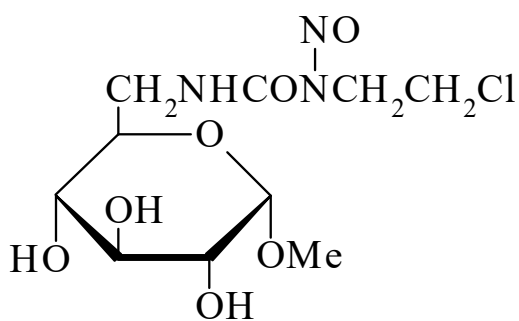




>>Entry Name: Ranimustine, INN, JAN

Synonym(s): Methyl 6-[[[(2-chloroethyl)nitrosoamino]carbonyl]amino]-6-deoxy- α -D-glucopyranoside, 9Cl. Ranomustine. Cymerin. Tymerin. MCNU. NSC 270516



CAS Registry Number: 58994-96-0

Molecular Formula: $C_{10}H_{18}ClN_3O_7$

Molecular Weight: 327.721

Accurate Mass: 327.083329

Percentage Composition: C 36.65%; H 5.54%; Cl 10.82%; N 12.82%; O 34.17%

Use/Importance: Antineoplastic agent

Physical Description: Pale yellow needles

Development Status: Launched 1987

Melting Point: Mp 111-112 dec. $^{\circ}$

Optical Rotation: $[\alpha]_D^{20} +93.2$ (c, 0.5 in MeOH)

Calculated Log P Data: Log P -1.59 (calc)

Hazard & Toxicity: LD₅₀ (rat, orl) 46.4 mg/kg. LD₅₀ (rat, ipr) 37 mg/kg. Exp. reprod. and mutagenic effects

References:

Ger. Pat., 1978, *Tokyo Tanabe*, 2 805 185; *CA*, **90**, 6664, (*synth*)

Sekido, S. *et al.*, *Cancer Treat. Rep.*, 1979, **63**, 961, (*pharmacol*)

Fujimoto, S. *et al.*, *Gann*, 1984, **75**, 937, (*pharmacol, tox*)

Martindale, The Extra Pharmacopoeia, 30th edn., *Pharmaceutical Press*, 1993, 499