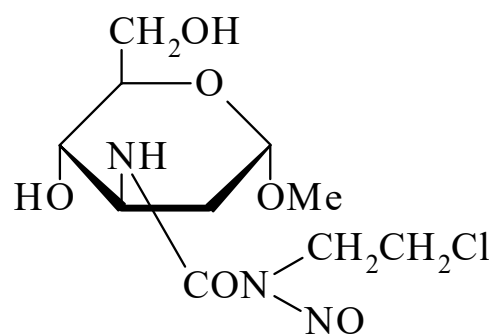




>>Entry Name: Ecomustine, INN

Synonym(s): Methyl 3-[[[(2-chloroethyl)nitrosoamino]carbonyl]amino]-2,3-dideoxy- α -D-arabino-hexopyranoside, 9Cl. Cy 233. NSC 609224



CAS Registry Number: 98383-18-7

Type of Compound Code(s): XA1950

Molecular Formula: $C_{10}H_{18}ClN_3O_6$

Molecular Weight: 311.721

Accurate Mass: 311.088414

Percentage Composition: C 38.53%; H 5.82%; Cl 11.37%; N 13.48%; O 30.80%

Use/Importance: Antineoplastic agent

Physical Description: Cryst. (cyclohexane)

Melting Point: Mp 118°

Optical Rotation: $[\alpha]_D +96.2$ (c, 0.5 in $CHCl_3$)

Calculated Log P Data: Log P -1.21 (calc)

Hazard & Toxicity: LD₅₀ (mus, ipr) 40 mg/kg

References:

Gosse, C. *et al.*, *Anticancer Res.*, 1988, **8**, 1419, (*pharmacol*)

Atassi, G. *et al.*, *Cancer Chemother. Pharmacol.*, 1989, **25**, 205, (*pharmacol*)

Gosse, C. *et al.*, *J. Med. Chem.*, 1989, **32**, 16, (*synth, pmr, pharmacol*)

el Abed, I. *et al.*, *Cancer Chemother. Pharmacol.*, 1991, **27**, 295, (*hplc*)