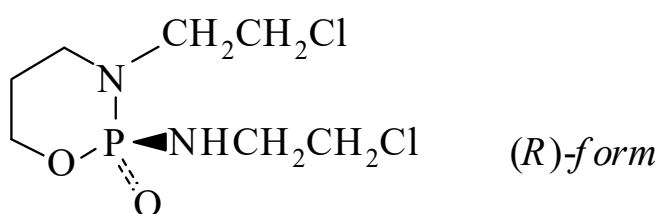




>>Entry Name: Ifosfamide, BAN, INN, JAN, USAN

Synonym(s): *N*,3-Bis(2-chloroethyl)tetrahydro-2*H*-1,3,2-oxazaphosphorin-2-amine 2-oxide, 9Cl. 3-(2-Chloroethyl)-2-[(2-chloroethyl)amino]tetrahydro-2*H*-1,3,2-oxazaphosphorine 2-oxide, 8Cl. Cyfos. Holoxan. Ifex. Ifomide. Isoendoxan. Isophosphamide. Iphospharmide. Mitoxana. Naxamide. A 4942. MJF 9325. NSC 109724. Asta 4942



CAS Registry Number: 3778-73-2

Molecular Formula: C₇H₁₅Cl₂N₂O₂P

Molecular Weight: 261.087

Accurate Mass: 260.024819

Percentage Composition: C 32.20%; H 5.79%; Cl 27.16%; N 10.73%; O 12.26%; P 11.86%

Biological Use/Importance: Antileukaemic, antineoplastic, immunosuppressant

Development Status: Approved 1988

Calculated Log P Data: Log P 0.92 (uncertain value) (calc)

Sigma: I0147

>>Variant: (*R*)-form

Synonym(s): Dexifosfamide

CAS Registry Number: 66849-34-1

Molecular Formula: C₇H₁₅Cl₂N₂O₂P

Molecular Weight: 261.087

Accurate Mass: 260.024819

Percentage Composition: C 32.20%; H 5.79%; Cl 27.16%; N 10.73%; O 12.26%; P 11.86%

Physical Description: Cryst. (Et₂O)

Melting Point: Mp 61-63°

Optical Rotation: [α]_D²⁵ +39 (c, 4 in MeOH)

>>Variant: (*S*)-form

CAS Registry Number: 66849-33-0

Molecular Formula: C₇H₁₅Cl₂N₂O₂P

Molecular Weight: 261.087

Accurate Mass: 260.024819

Percentage Composition: C 32.20%; H 5.79%; Cl 27.16%; N 10.73%; O 12.26%; P 11.86%

Physical Description: Cryst. (Et₂O)

Melting Point: Mp 62-63°

Optical Rotation: [α]_D²⁵ -38.8 (c, 4.2 in MeOH)

>>Variant: ($\pm$)-form

CAS Registry Number: 84711-20-6

Molecular Formula: C₇H₁₅Cl₂N₂O₂P

Molecular Weight: 261.087

Accurate Mass: 260.024819

Percentage Composition: C 32.20%; H 5.79%; Cl 27.16%; N 10.73%; O 12.26%; P 11.86%

Physical Description: Cryst. (Et₂O)

Hazard & Toxicity: Nephrotoxic and adverse CNS effects reported when used therapeutically. LD₅₀ (rat, orl) 143 mg/kg. Exp. carcinogenic data. Exp. reprod. and teratogenic effects

References: