

Technical Data Sheet

Cyclophosphamide

Compound Information

Product Name:	Cyclophosphamide
CAS No.:	50-18-0
Molecular Formula:	C ₇ H ₁₅ Cl ₂ N ₂ O ₂ P
Molecular Weight:	261.09
Storage:	Store at -20°C
Revision Date:	2026-04-27

Analytical Information

Tests	Specifications
Description	Cyclophosphamide is a synthetic alkylating agent chemically related to the nitrogen mustards with antineoplastic and immunosuppressive activities. *The compound is unstable in solutions, freshly prepared is recommended
IUPAC Name	2-[Bis(2-chloroethyl)amino]tetrahydro-2H-1,3,2-oxazaphosphorine 2-oxide
Form	solid
Color	White to off-white
Solubility	≥11.85 mg/mL in H ₂ O with gentle warming and ultrasonic; ≥13.05 mg/mL in DMSO; ≥50.8 mg/mL in EtOH
HPLC	Shows 99.9% purity
MS	Pass test
¹H NMR	Pass test
¹³C NMR	Pass test
IR	Pass test
Raman	Pass test

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