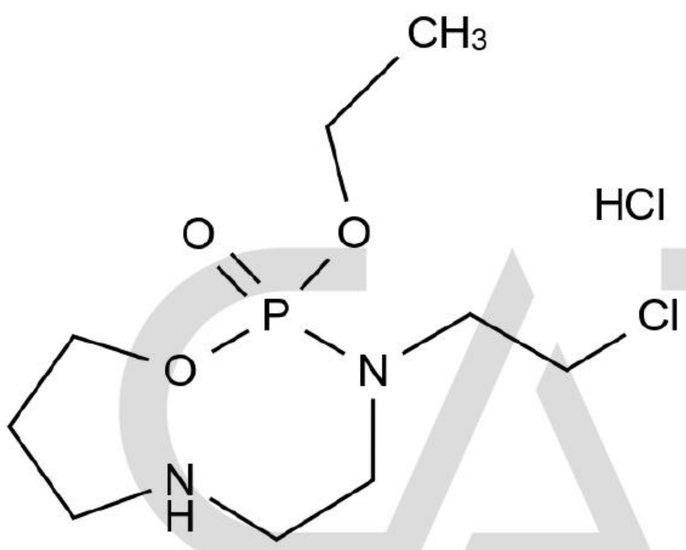
Certificate of Analysis

Reference Material & Standard

Product Name:	Cyclophosphamide impurity 31	**Catalogue Number:**	C4X-230631
Synonyms:	N/A	**Lot Number:**	1108-RH-0069
CAS Number:	2517939-95-4(free base)	**Expiry Date:**	Jan 12, 2030
Molecular Formula:	$C_9H_{20}ClN_2O_3P$ HCl	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	270.69 36.46	**Shipping Condition:**	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	ELSD	99.4%
Assay	qNMR	92.9%

CATO Research Chemicals Inc.

Comment:

The compound contains 0.2% Cyclophosphamide Impurity 2 HCI (RT 4.84) according to its HPLC.

Signature:

Prepared by: Koi Date: Nov 11, 2026

Reviewed by: Hinlam Date: Nov 11, 2026

Approved by General Manager: David Date: Nov 11, 2026

CATO Research Chemicals Inc.