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## Certificate of Analysis

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Product Name: Palifosfamide  
Cat. No.: GC14762  
Batch No.: 1  
Chemical Name: bis(2-chloroethylamino)phosphinic acid

### PHYSICAL AND CHEMICAL PROPERTIES

Cas. No.: 31645-39-3  
Molecular Formula:  $C_4H_{11}Cl_2N_2O_2P$   
Molecular Weight: 221.02  
Storage: Store at  $-20^{\circ}C$ , protect from light, stored under nitrogen  
Chemical Structure:

### ANALYTICAL DATA

Appearance: solid  
HNMR: Consistent with structure  
HPLC: Consistent with structure  
Purity: >98%  
Conclusion: The product has been tested and complies with the given specifications.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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