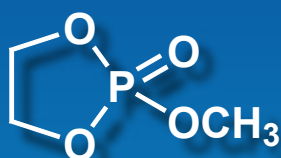


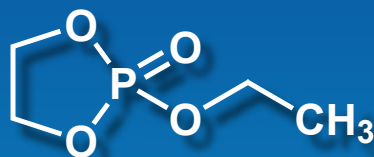
Cyclic Phospholane Monomers for Biocompatible Materials



2-Methoxy-2-oxo-1,3,2-dioxaphospholane

1g / 5g

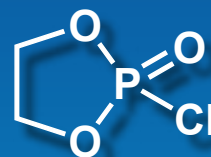
[M3604] **New**



2-Ethoxy-2-oxo-1,3,2-dioxaphospholane

1g / 5g

[E1458]



2-Chloro-2-oxo-1,3,2-dioxaphospholane

5g / 25g

[C1250]

Advantages

- Monomers for polyphosphate esters with high biodegradability.¹⁾
- Topology control of the polyphosphate esters is possible by introducing substituents into the side chain.¹⁾
- Obtained polymers are applicable to drug delivery systems.²⁾

References

- 1) Controlled Synthesis of Polyphosphoesters and Their Application as Drug Carriers
Y. Iwasaki, *NIPPON GOMU KYOKAISHI* **2014**, 87, 411.
<https://doi.org/10.2324/gomu.87.411>
- 2) Poly(ethylene oxide)-*block*-Polyphosphoester-*graft*-Paclitaxel Conjugates with Acid-Labile Linkages as a pH-Sensitive and Functional Nanoscopic Platform for Paclitaxel Delivery
J. Zou, F. Zhang, S. Zhang, S. F. Pollack, M. Elsabahy, J. Fan, K. L. Wooley, *Adv. Healthc. Mater.* **2014**, 3, 441.
<https://doi.org/10.1002/adhm.201300235>

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