

Product Information

Ester/Bromo/Phosphonate PEG reagent, Diethyl 6-bromohexylphosphonate, Purity ≥98%

Cat. No.: X25-10-YM019

Size: 250 mg; 500 mg; 1 g; 5 g

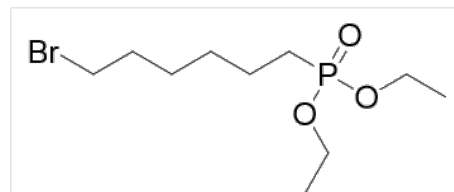
CAS Number: 100462-72-4

PubChem CID: 14646002

Synonym: 100462-72-4; Diethyl (6-bromohexyl)phosphonate; Diethyl

6-bromohexylphosphonate; 1-Bromo-6-diethoxyphosphorylhexane

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Diethyl 6-bromohexylphosphonate features a molecular mass of 301.2 and is described by the chemical formula $C_{10}H_{22}BrO_3P$. This compound consists of the functional groups ester, bromo, and phosphonate, while reactivity is indicated by acid and alcohol.
Molecular Weight	301.2
Molecular Formula	$C_{10}H_{22}BrO_3P$
Functional Group 1	Ester
Functional Group 2	Bromo
Functional Group 3	Phosphonate
Reactive Group 1	Acid
Reactive Group 2	Alcohol
IUPAC Name	1-Bromo-6-diethoxyphosphorylhexane
InChI Key	HIQKURBMYMZOMF-UHFFFAOYSA-N
Canonical SMILES	<chem>CCOP(=O)(CCCCCBr)OCC</chem>
Form	Liquid
Purity	≥98%
Impurities	No visible impurities to the naked eye.
Identity	Confirmed by NMR.
Applications	Diethyl 6-bromohexylphosphonate plays a key role in the synthesis of phosphonate-based surfactants and for modifying surfaces to enhance adhesion and biocompatibility.
Storage	Store at -20°C.

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