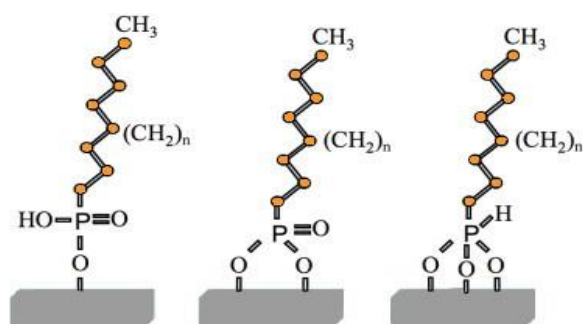
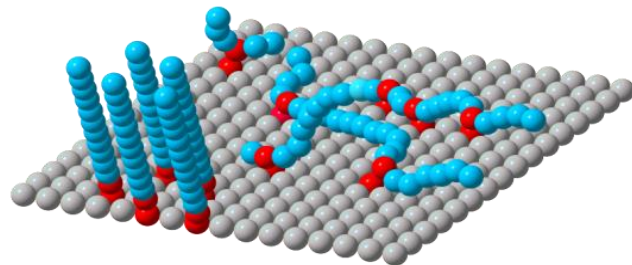


PHOSPHONIC ACIDS BUILDING BLOCKS & POLYMERS

PHOSPHONIC ACIDS readily react with a **wide range of metal salts and oxides** (iron, aluminium, cerium, titanium, uranium, ITO, gadolinium, nickel, copper, zinc, calcium, quantum dots, nano-metals, etc.), so they can be used for **modifying different surfaces** by grafting functional molecules onto surface using appropriate polymers. The organic backbone to be bound onto the surface requires the presence of anchoring groups compatible with the chemical nature of the substrate to be modified. The PHOSPHONIC ACIDS functionality was often found to be **superior to silanes** for other inorganic substrates than silica, because of the **higher robustness and stability** of metal-OP over metal-OSi bonds.¹



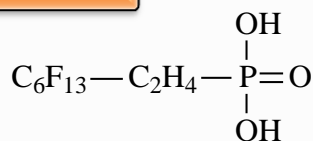
More over, **PHOSPHONIC ACIDS** show a **high compatibility with other organic functional groups** and both their ester and acid forms can generally be used for surface modifications, which can thus be performed in **many solvents including water**. Surface modified hybrid materials have been applied in areas as diverse as coatings (metal adhesion, anticorrosion, optoelectronics, organic solar cell), biomedical (dental, radiotherapy, implanted materials, drug delivery systems).

1. Surface Modification Using Phosphonic Acids and Ester; B. Bujoli et al; Chem. Rev.; 2012; 112(7);3777-3807.

DISCOVER PHOSPHONIC ACID CHEMISTRY AT ATTRACTIVE PRICES

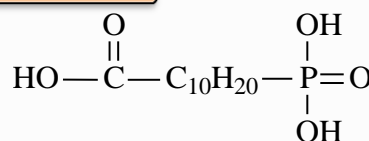
CLICK HERE TO
COMPOSE YOUR OWN KIT OF PHOSPHONIC ACIDS @ 99€

SP-01-001 Building Blocks



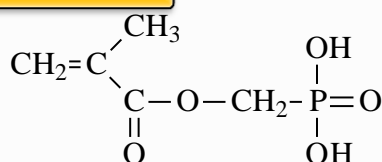
Hydrophobic - Oléophobic

SP-3-10-003 Building Blocks



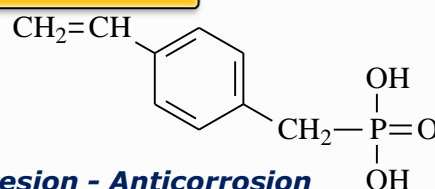
Cross-coupling

SP-41-007 Monomers



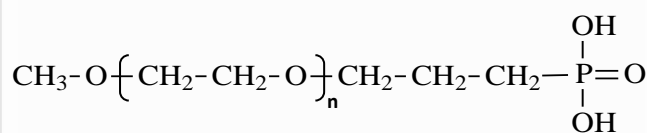
Adhesion - Anticorrosion

SP-51-003 Monomers



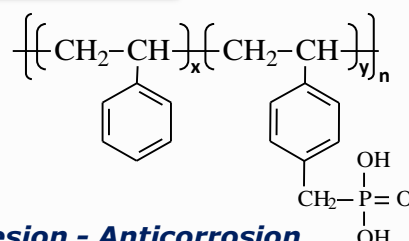
Adhesion - Anticorrosion

SP-1P-1-001 Polymers



Hydrophilic

SP-5P-1-003 Polymers



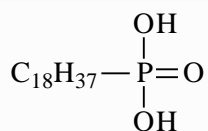
Adhesion - Anticorrosion

More Functional Monomers and Polymers @
WWW.SPECIFIC POLYMERS.FR

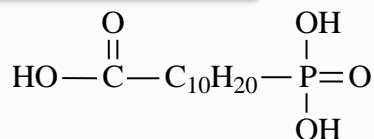


PHOSPHONIC ACID – BUILDING BLOCKS

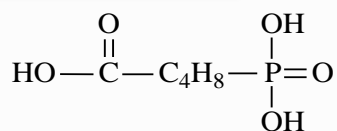
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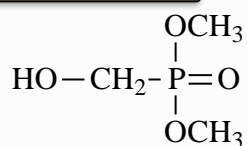
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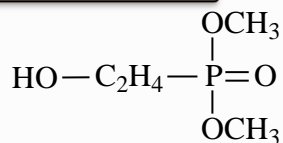
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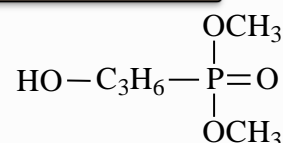
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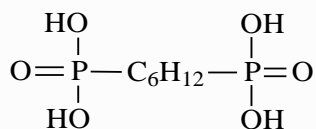
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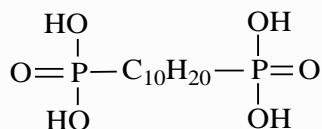
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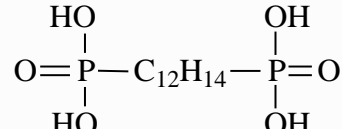
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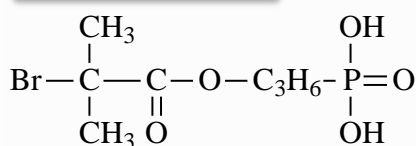
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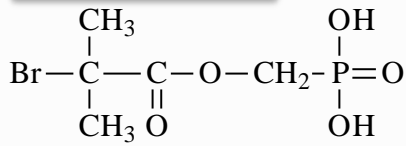
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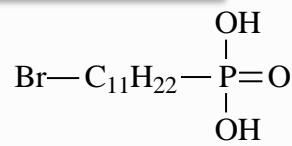
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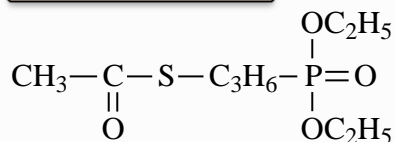
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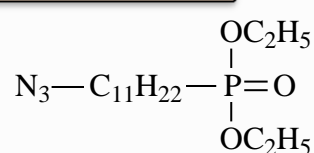
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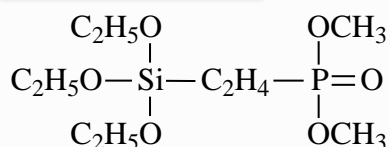
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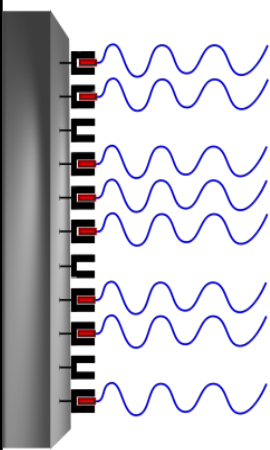
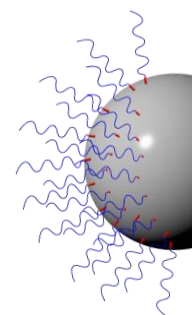
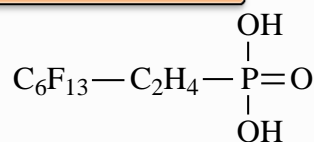
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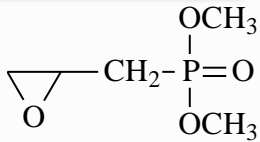


SP-01-001

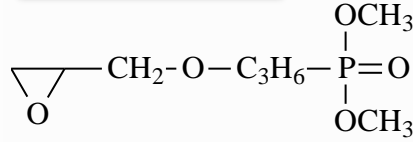


PHOSPHONIC ACID – MONOMERS

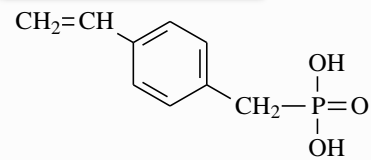
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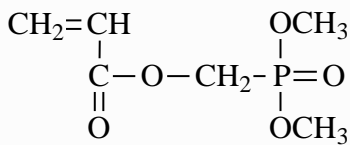
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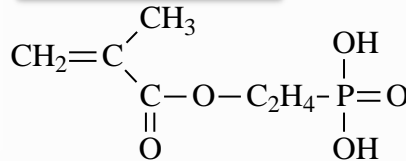
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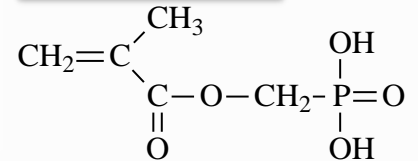
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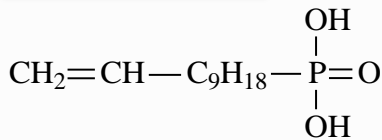
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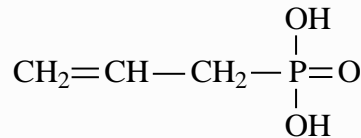
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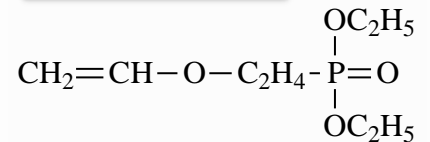
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SP-61-006

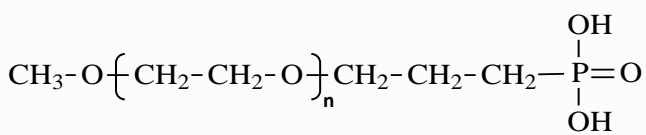


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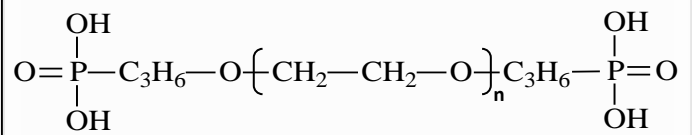


PHOSPHONIC ACID – POLYMERS

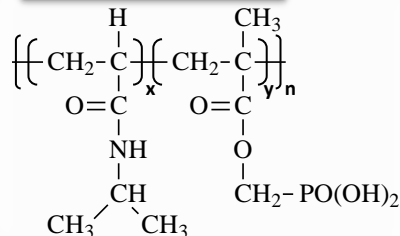
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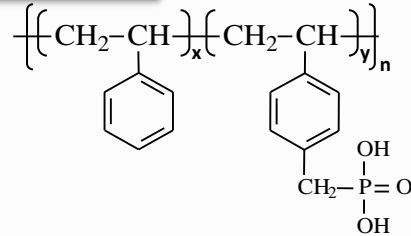
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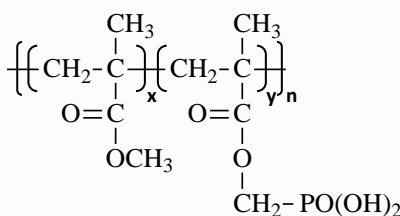
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SP-7P-1-001

