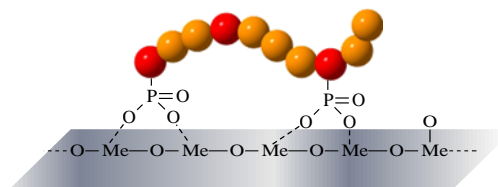


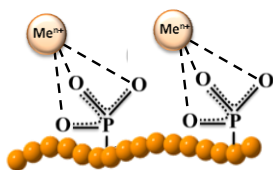
PHOSPHONIC ACIDS BUILDING BLOCKS & POLYMERS

ORGANOPHOSPHORUS (MACRO)MOLECULES react with a wide range of metal and metal oxides (iron, aluminium, cerium, titanium, uranium, ITO, gadolinium, nickel, copper, zinc, calcium, quantum dots, nano-metals, etc.) and thus can be used for **SURFACE MODIFICATION** (grafting onto). 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]

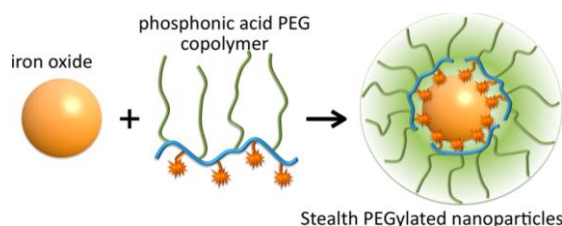
SURFACE MODIFICATION



SORPTION OF METALLIC CATIONS



(NANO)PARTICLES FUNCTIONALIZATION



SPECIFIC POLYMERS synthesized and provided to its customers a wide range of **BUILDING-BLOCK, MONOMERS AND POLYMERS** containing **ORGANOPHOSPHORUS FUNCTIONAL GROUPS**. Both their ester and acid forms can generally be used for surface modifications. Different surface properties (hydrophoby, oleophoby, biocompatibility, anticorrosion, etc.) can be reach using the appropriate building block, monomer or polymer. SPECIFIC POLYMERS organophosphorus product are currently used in a very wide range of applications (metal surface coating and paints, adhesive coating, water treatment, optoelectronic, organic solar cells, biomedical, dental care, radiotherapy, drug delivery).[2-4]

[1] Queffelec, C.; Petit, M.; Janvier, P.; Knight, D. A.; Bujoli, B. Chem Rev 2012, 112, 3777.

[2] Sonnier, R.; Otazaghine, B.; Viretto, A.; Apolinario, G.; Ienny, P. Eur Polym J 2015, 68, 313.

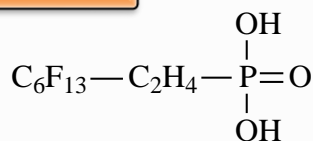
[3] Graillot, A.; Bouyer, D.; Monge, S.; Robin, J. J.; Loison, P.; Faur, C. J Hazard Mater 2013, 260, 425.

[4] Torrisi, V.; Graillot, A.; Vitorazi, L.; Cruzet, Q.; Marletta, G.; Loubat, C.; Berret, J. F. Biomacromol. 2014, 15, 3171.

DISCOVER PHOSPHONIC ACID CHEMISTRY AT ATTRACTIVE PRICES

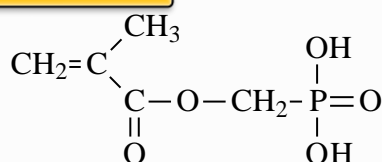
CLICK HERE TO
COMPOSE YOUR OWN KIT OF PHOSPHONIC ACIDS @ 99€

SP-01-001 Building Blocks



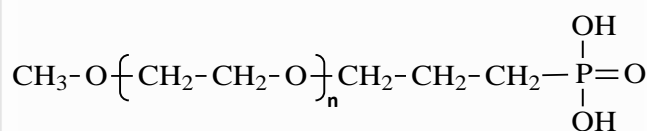
Hydrophobic - Oléophobic

SP-41-007 Monomers



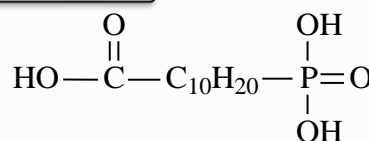
Adhesion - Anticorrosion

SP-1P-1-001 Polymers



Hydrophilic

SP-3-10-003 Building Blocks



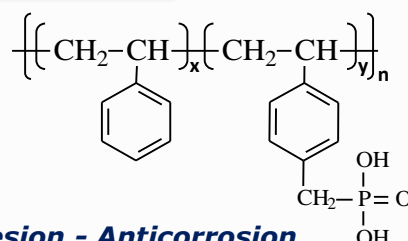
Cross-coupling

SP-51-003 Monomers



Adhesion - Anticorrosion

SP-5P-1-003 Polymers



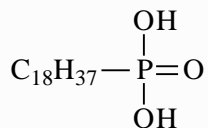
Adhesion - Anticorrosion

More Functional Monomers and Polymers @
WWW.SPECIFICPOLYMERS.FR

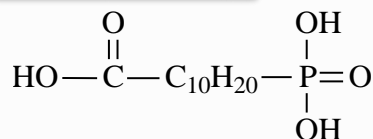


PHOSPHONIC ACID – BUILDING BLOCKS

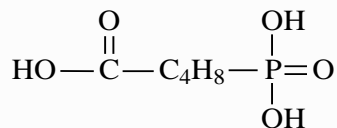
SP-31-008



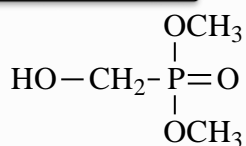
SP-3-10-003



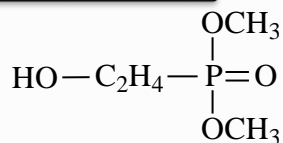
SP-3-10-006



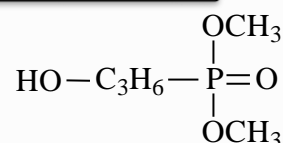
SP-3-13-001



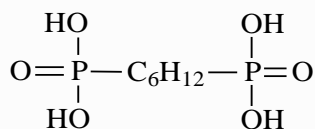
SP-3-13-003



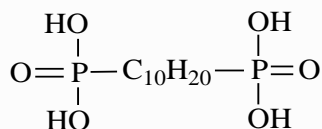
SP-3-13-005



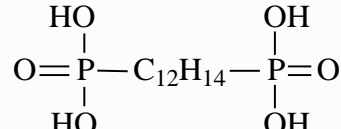
SP-3-11-003



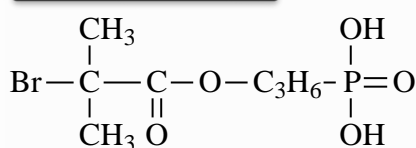
SP-3-11-008



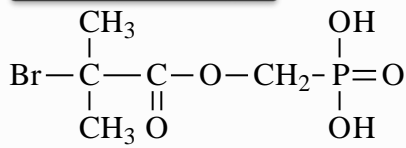
SP-3-11-010



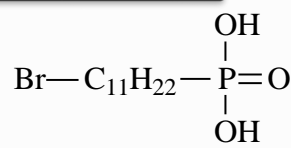
SP-19-003



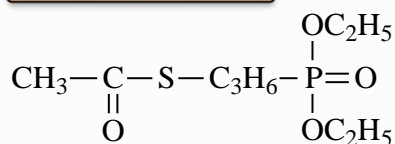
SP-19-005



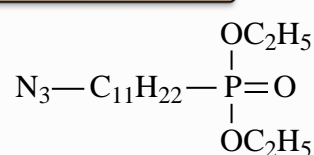
SP-3-19-009



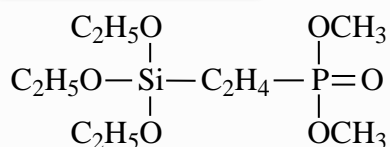
SP-3-16-001



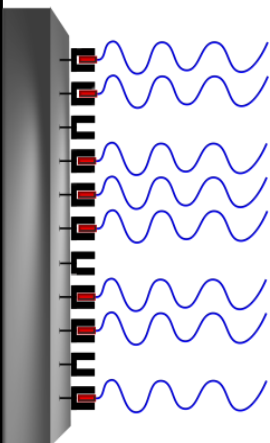
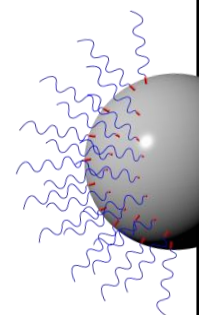
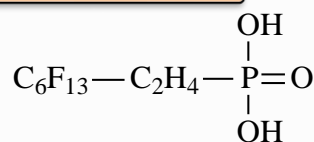
SP-3-19-005



SP-3-12-001

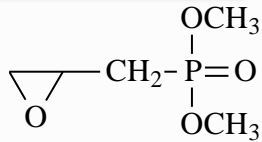


SP-01-001

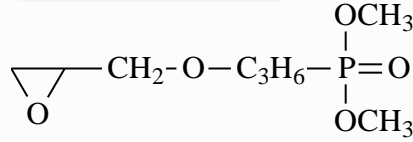


PHOSPHONIC ACID – MONOMERS

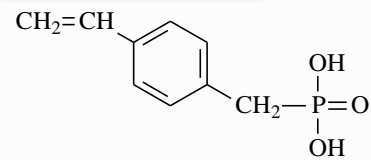
SP-3-15-003



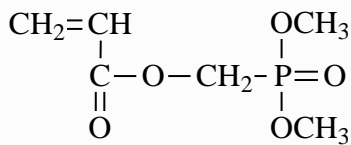
SP-3-15-004



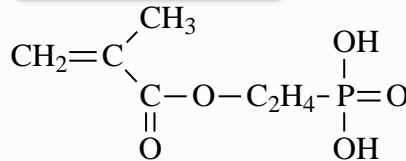
SP-51-003



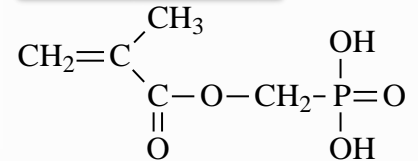
SP-41-010



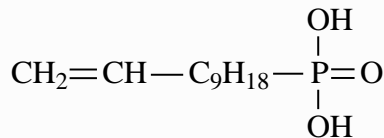
SP-41-016



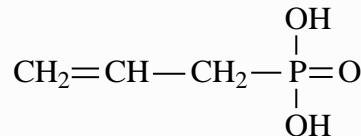
SP-41-007



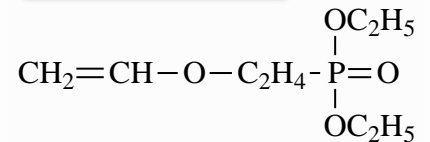
SP-61-003



SP-61-006

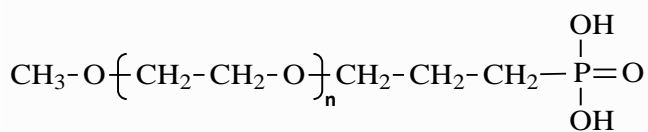


SP-61-007

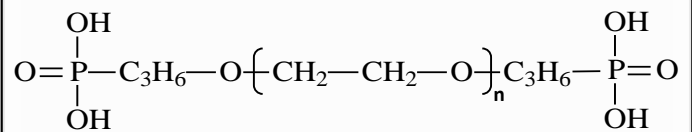


PHOSPHONIC ACID – POLYMERS

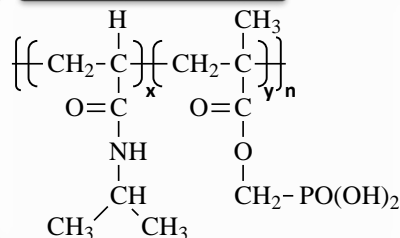
SP-1P-1-001



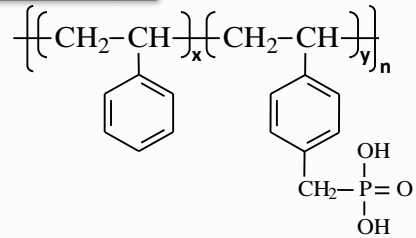
SP-1P-1-003



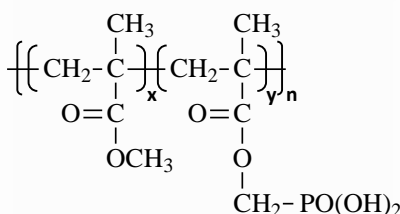
SP-3P-1-001



SP-5P-1-003



SP-4P-1-003



SP-7P-1-001

