

UV CURABLE MONOMERS AND POLYMERS

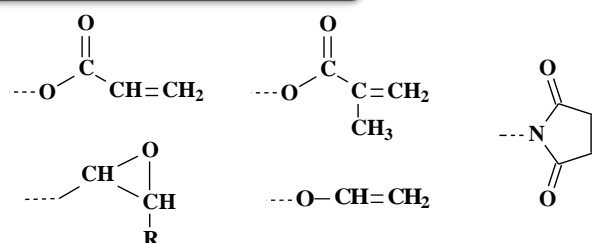
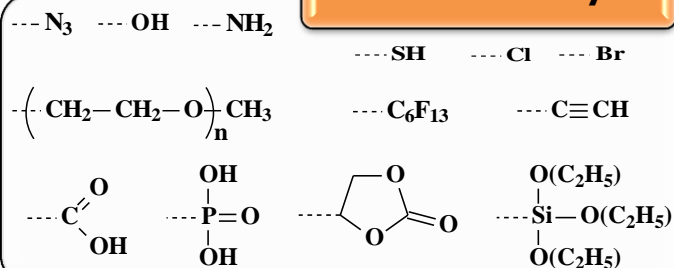
LIGHT INDUCED POLYMERIZATION of multifunctional monomers, oligomers and polymers, also called UV radiation curing, has been widely developed in the last decades and has found a large variety of industrial applications. It is considered to be the most effective way to rapidly transform a solvent-free liquid resin into a solid polymer, at ambient temperature.¹

! BUILD YOUR OWN UV CURABLE COMPOUND !

Functional Monomers Mono/Bifunctional Polymers Multifunctional Polymers

Specific Functionality

UV-Crosslinkable functions



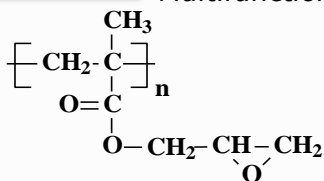
[CLICK HERE FOR MORE INFORMATION ON UV POLYMERIZATION](#)

SPECIFIC POLYMERS sells various monomers and polymers bearing photopolymerization moieties besides specific additional functionalities which offer the opportunity to give your materials the desired properties (hydrophily, hydrophoby, oleophoby, optical, anticorrosive, fireproofing, ...).

EXAMPLES

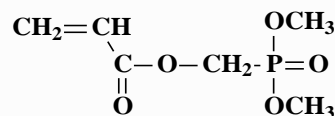
SP-4P-5-001

Multifunctional Polymer



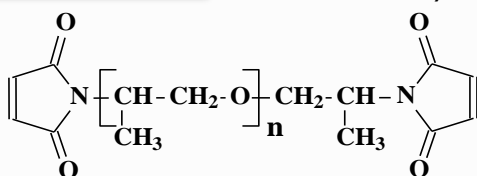
SP-41-010

Functional Monomer



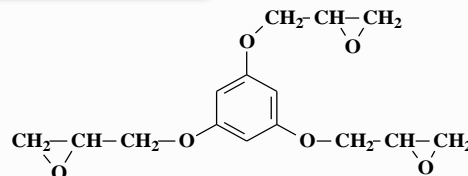
SP-1P-9-013

Bifunctional Polymer



SP-9S-5-003

Trifunctional Monomer



ALL OUR UV CURABLE MONOMERS AND POLYMERS ON THE FOLLOWING LINKS

[FUNCTIONAL MONOMERS](#)

[MONO/BIFUNCTIONAL POLYMERS](#)

[MULTIFUNCTIONAL POLYMERS](#)

More, thanks to its expertise in monomer, oligomer and polymer synthesis, SPECIFIC POLYMERS proposes to synthesize your **TAILOR-MADE UV CURABLE MONOMERS AND POLYMERS**.

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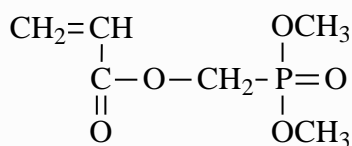
UV CURABLE MONOMERS AND POLYMERS

FUNCTIONAL MONOMERS

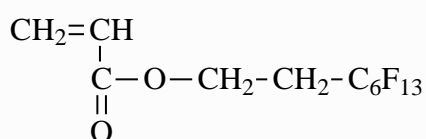


UV-curable acrylate

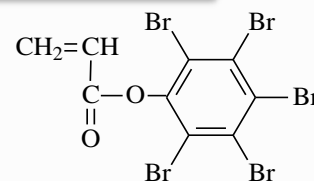
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SP-49-007

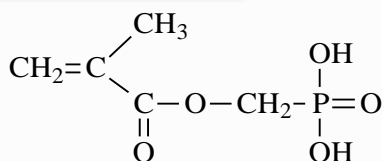


SP-49-006

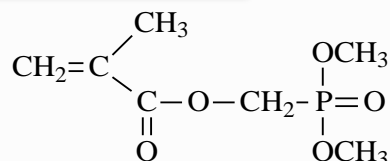


UV-curable methacrylate

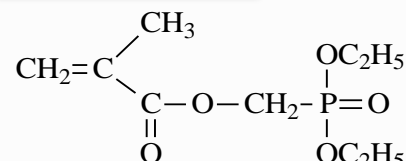
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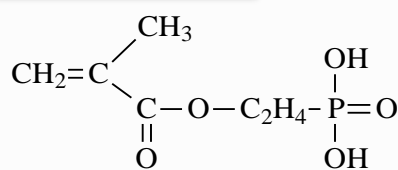
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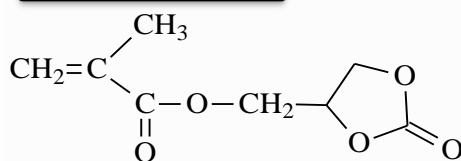
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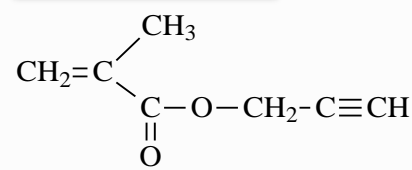
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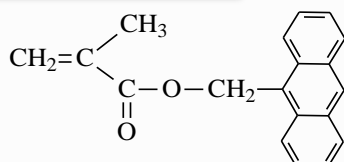
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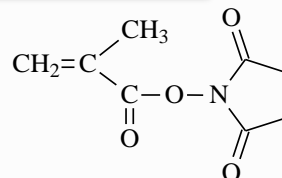
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SP-43-0-005



SP-49-005



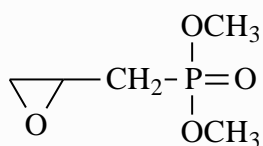
UV CURABLE MONOMERS AND POLYMERS

FUNCTIONAL MONOMERS

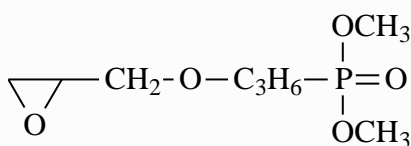


UV-curable epoxide

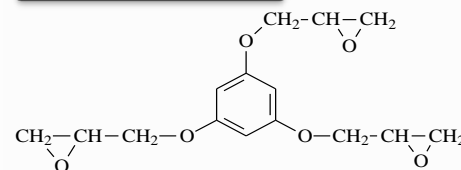
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SP-3-15-004

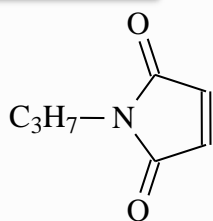


SP-9S-5-003

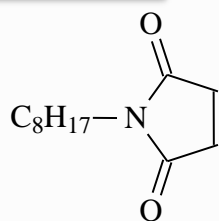


UV-curable maleimide

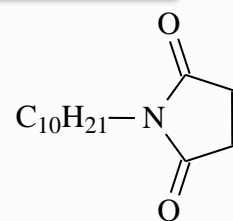
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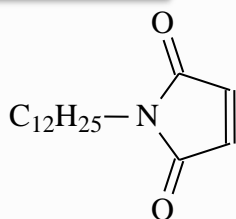
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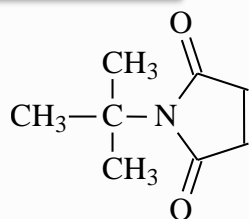
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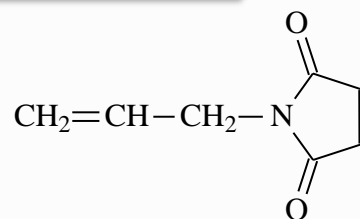
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SP-3-9-005

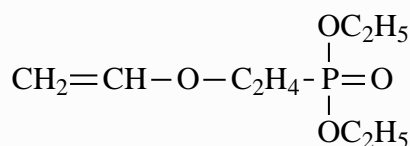


SP-3-9-004



UV-curable vinyl-ether

SP-61-007

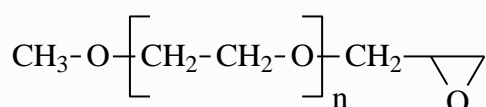


UV CURABLE MONOMERS AND POLYMERS

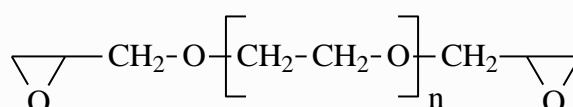
MONO AND BIFUNCTIONAL POLYMERS

UV-curable epoxide

SP-1P-5-004

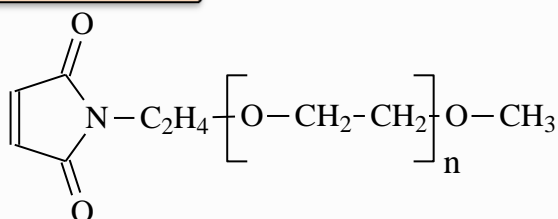


SP-1P-5-005

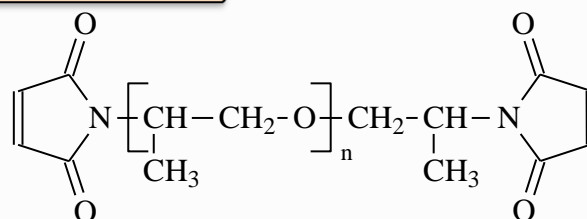


UV-curable maleimide

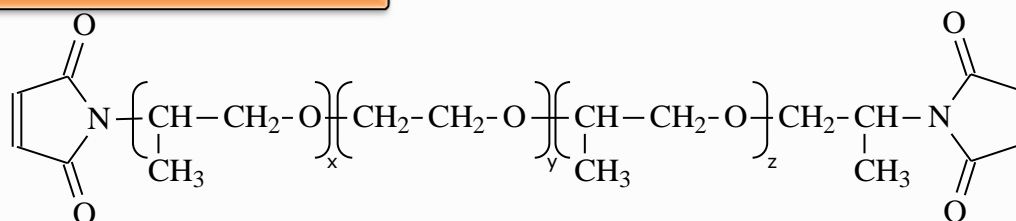
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SP-1P-9-013

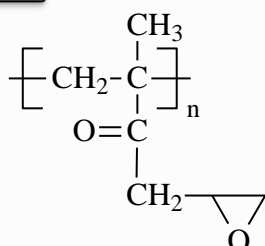


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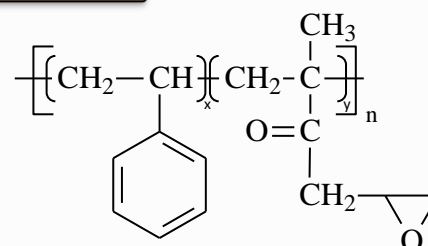


MULTIFUNCTIONAL POLYMERS

SP-4P-5-001



SP-54P-5-001



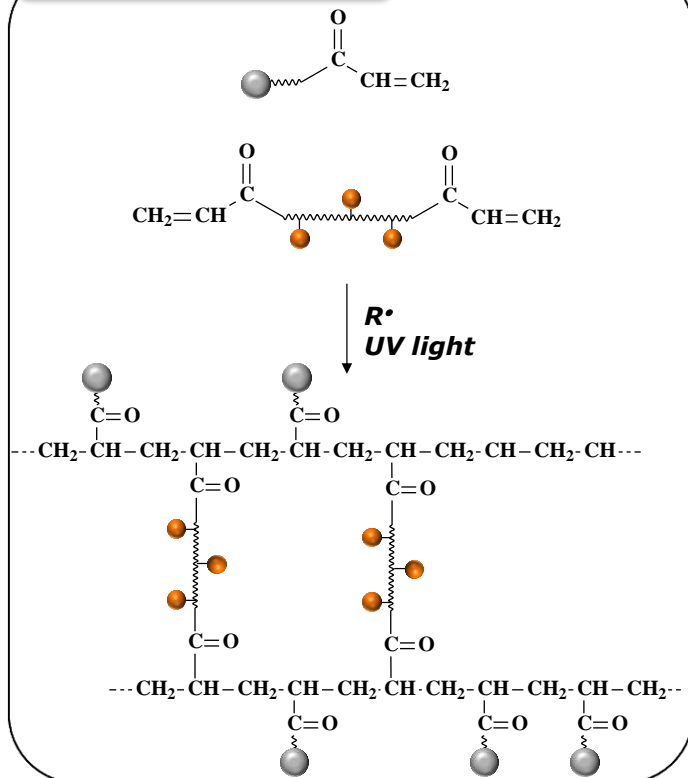
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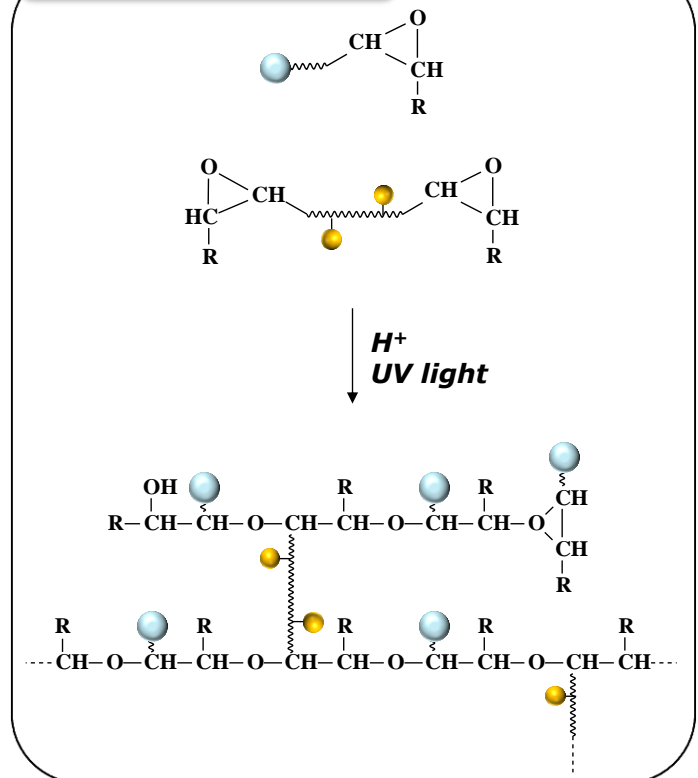
UV CURABLE MONOMERS AND POLYMERS

Most of the industrial formulations are based on the blend of multifunctional monomer or oligomer (acrylates, epoxides, vinyl ethers, ...), photoinitiator and additives. Depending on the reactivity, UV radiation curing results either from free radical or cationic photopolymerization

Free Radical Polymerization

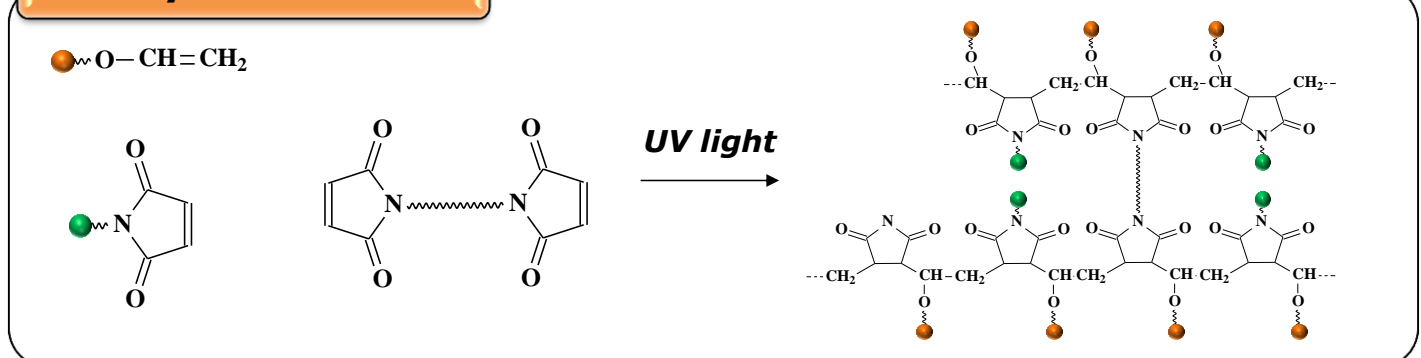


Cationic Polymerization



Recent advances in the field pointed out the interest of donor/acceptor systems, such as bismaleimide-divinyl ether combination, to achieved photoinitiator-free formulation and avoid possible long term degradation of the polymeric network.²

Photoinitiator-Free Polymerization



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