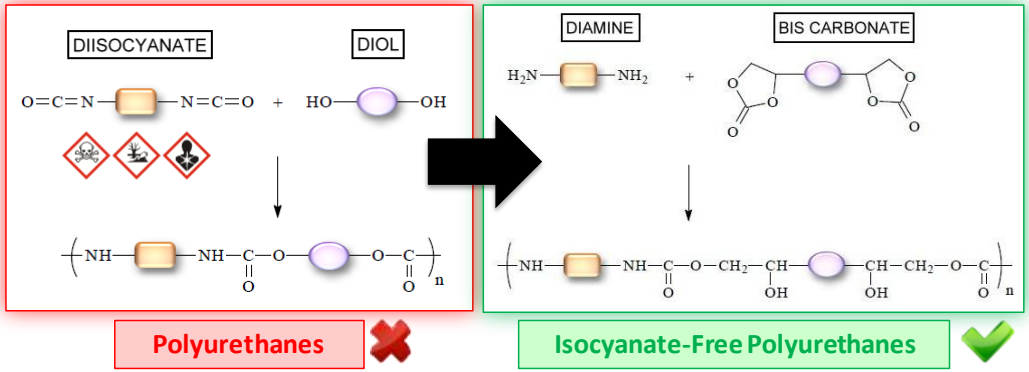
SPECIFIC POLYMERS

CYCLOCARBONATES BUILDING-BLOCKS, MONOMERS AND POLYMERS

Toward isocyanate-free Polyurethane materials

Monomers, Polymers and Building-Blocks containing cyclocarbonate moieties have shown to be very interesting in the synthesis of linear or crosslinked poly(hydroxyurethane)s. Such polymer materials, also called **isocyanate-free polyurethanes**, are obtained by reaction of carbonates with amines and are way less toxic than classical polyurethanes prepared form the reaction betweens alcohols and isocyanates.[1-3]

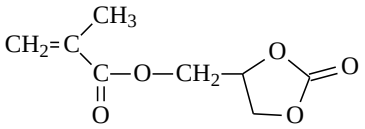


SPECIFIC POLYMERS synthesized and provided to its customers a wide range monomers, polymers and building-blocks containing cyclocarbonate moieties. Such isocyanate-free polyurethanes as been widely studied in the last decades and found applications in a versatility of fields such as batteries electrolytes, enzyme immobilization, adhesives, bio-based materials or photopolymerizable coatings.[4] Besides, poly(hydroxyurethane)s appears as an innovative and promising alternative for tomorrow's materials.

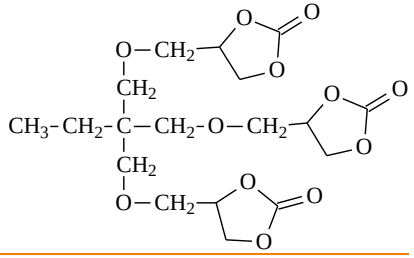
1. Besse, V., R. Auvergne, et al. (2013)." Reactive & Functional Polymers **73(3): 588-594.**
2. Besse, V., G. Foyer, et al. (2013). Journal of Polymer Science Part a-Polymer Chemistry **51(15): 3284-3296.**
3. Guan, J., Y. H. Song, et al. (2011). Industrial & Engineering Chemistry Research **50(11): 6517-6527.**
4. Webster, D. C. (2003). Progress in Organic Coatings **47(1): 77-86.**

Highlighted Products

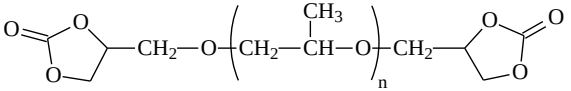
SP-40-001
Glycerol carbonate methacrylate



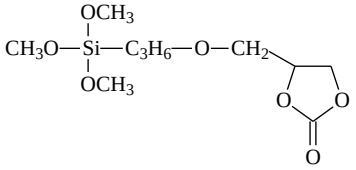
SP-3-00-003
TMP Tri Carbonate



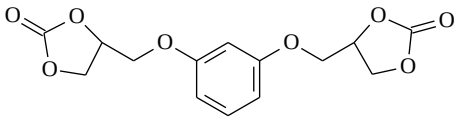
SP-1P-0-004
PPO Bis Carbonate



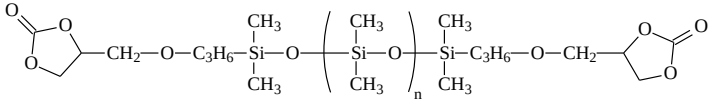
SP-3-02-002
Alkyl C3 Trimethoxysilane Carbonate



SP-68-007
Resorcinol Bis carbonate



SP-8P-00-001
PDMS Bis Carbonate

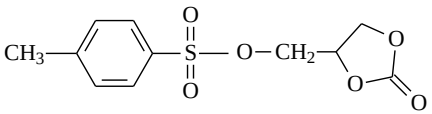


SPECIFIC POLYMERS

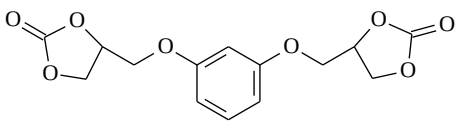
CYCLOCARBONATES BUILDING-BLOCKS, MONOMERS AND POLYMERS

Cyclocarbonate Building Blocks

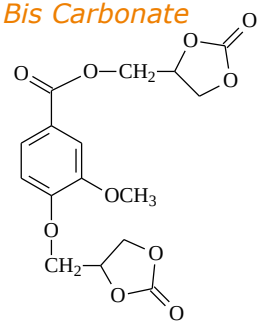
SP-68-004
Glycerol carbonate
Tosyl end group



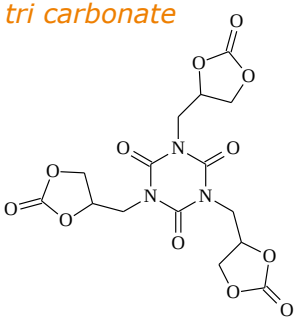
SP-68-007
Resorcinol
Bis carbonate



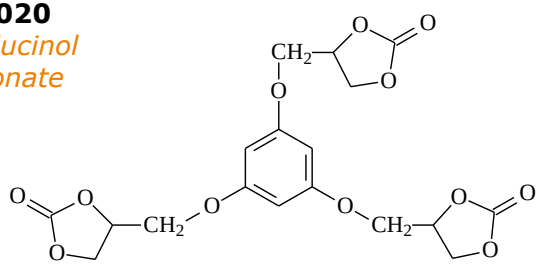
SP-68-014
Vanillic Acid
Bis Carbonate



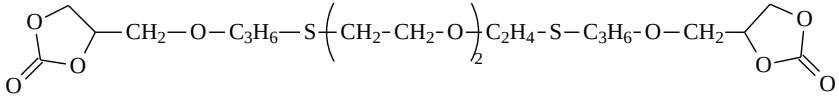
SP-68-019
Isocyanurate
tri carbonate



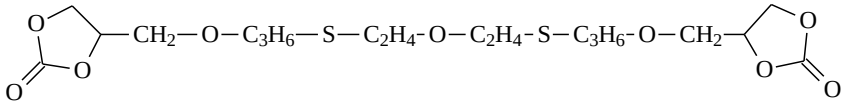
SP-68-020
Phloroglucinol
tri carbonate



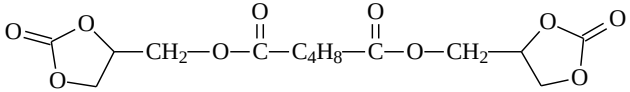
SP-68-006
DMDO Bis carbonate



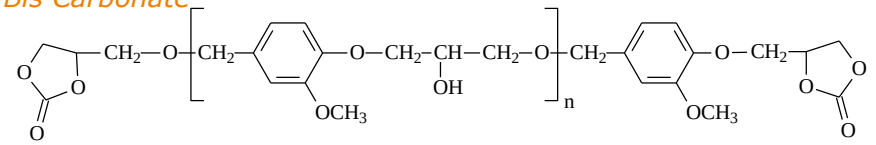
SP-68-009
OET Bis carbonate



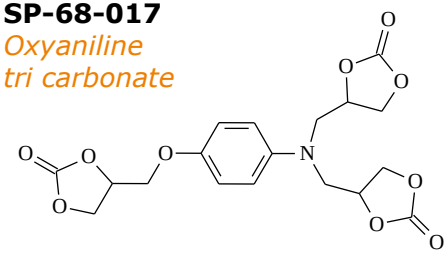
SP-68-011
Adipate
Bis carbonate



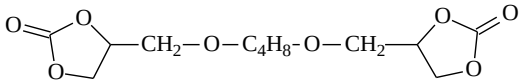
SP-68-015
Vanillin Bis Carbonate



SP-68-017
Oxyaniline
tri carbonate



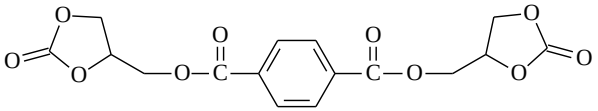
SP-68-021
Butanediol
Bis Carbonate



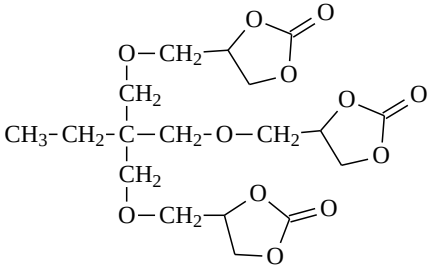
CYCLOCARBONATES BUILDING-BLOCKS, MONOMERS AND POLYMERS

Cyclocarbonate Building Blocks

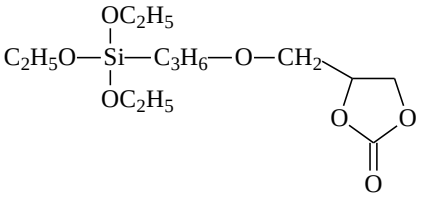
SP-3-00-002
Bis carbonate terephtalate



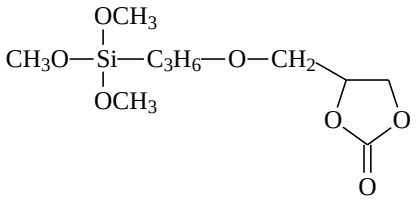
SP-3-00-003
TMP Tri Carbonate



SP-3-02-001
Alkyl C3 Triethoxysilane Carbonate

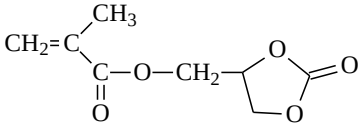


SP-3-02-002
Alkyl C3 Trimethoxysilane Carbonate

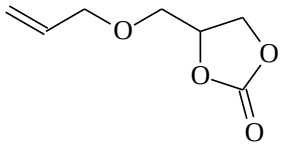


Cyclocarbonate Monomers

SP-40-001
Glycerol carbonate methacrylate

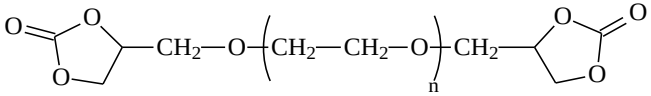


SP-60-001
Allyl Glycerol carbonate

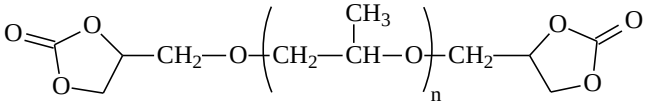


Cyclocarbonate Polymers

SP-1P-0-004
PEO Bis Carbonate



SP-1P-0-004
PPO Bis Carbonate



SP-8P-00-001 - *PDMS Bis Carbonate*