Category

Synthesis of Materials and Unnatural Products

Key words

[2+2+2] cycloaddition

chain-growth polymerization

block copolymers

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Chain-Growth Cycloaddition Polymerization via a Catalytic Alkyne [2+2+2] Cyclotrimerization Reaction and Its Application to One-Shot Spontaneous Block Copolymerization

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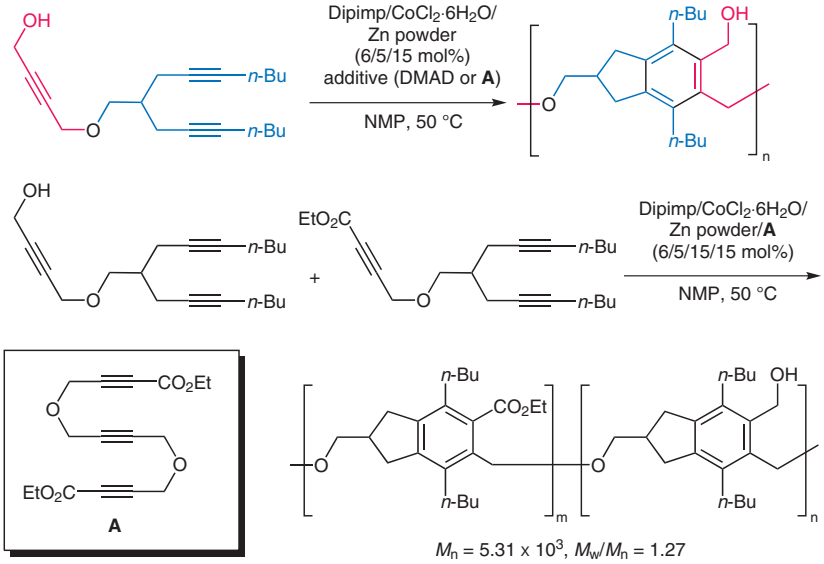
[2+2+2] for Chain-Growth Polymerization



Significance: Linear polymers were formed from yne-diyne monomers via catalytic alkyne cycloaddition in a chain-growth manner. Two monomers with significantly different reactivity produced a block copolymer by one-shot polymerization.

Comment: Electron-deficient additives such as DMAD or triyne A were employed to activate the catalysis rapidly.

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