Category

Synthesis of Materials and Unnatural Products

Key words

[2+2+2] cycloaddition

chain-growth polymerization

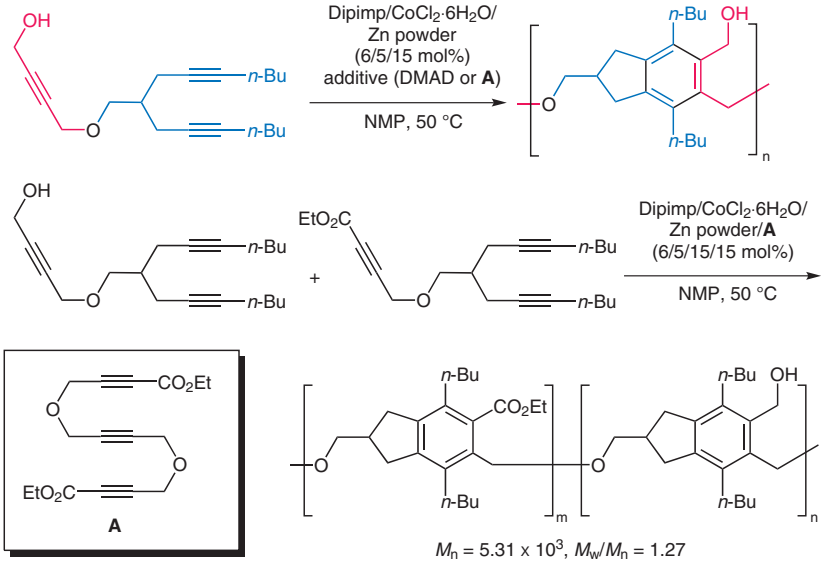
block copolymers

Y. SUGIYAMA, R. KATO, T. SAKURADA, S. OKAMOTO* (KANAGAWA UNIVERSITY, YOKOHAMA, JAPAN)

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

J. Am. Chem. Soc. **2011**, *133*, 9712-9715.

[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.

SYNFACTS Contributors: Timothy M. Swager, Ggoch Ddeul Han
Synfacts 2011, 9, 0964-0964 Published online: 19.08.2011
DOI: 10.1055/s-0030-1261025; **Reg-No.:** S09111SF