



Deoligomerization by cocomplexation: syntheses and structures of aluminium-calcium alkoxides and aryloxides.

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Reactions of oligomeric "Ca(dbbfo)₂" and Ca₉(CH₃OCH₂CH₂O)₁₈(CH₃OCH₂CH₂OH)₂ with Al(CH₃)₃ in toluene gave tetranuclear heterobimetallic [Ca(μ-dbbfo){(μ-dbbfo)(μ-CH₃)Al(CH₃)₂}]₂ (71%) and polymeric Ca{(μ-CH₃OCH₂CH₂O)(μ-CH₃)Al(CH₃)₂}]₂ (86%). The latter can be obtained as monomeric THF adduct Ca{(μ-CH₃OCH₂CH₂O)Al(CH₃)₃}(THF)₂ (78%) when a mixture of solvents is used. The results, including an initial l-lactide polymerization test, are discussed in the context of calcium alkoxo cluster degradation in solution.

Słowa kluczowe

Calcium, Oxygen, Alkyls, Ligands, Molecules

Adres publiczny

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<https://www.acs.org/content/acs/en.html>