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Synthesis of polyphosphorylated diaminoalkanes

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Abstract

© 2016 Taylor & Francis Group, LLC. Heating a mixture of 2:1 molar ratio of vinylphosphonate with 1,3-diaminopropane leads to the formation of N,N-bis-[(dialkoxyphosphoryl)ethyl]-1,3-diaminopropane. The tetraphosphorylated diaminoalkanes were obtained on the basis of the Kabachnik-Fields reaction.

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Keywords

1,3-Diaminopropane, N,N-bis-[(dialkoxyphosphoryl)ethyl]-1,3-diaminopropane, tetraphosphorylated diaminoalkane, vinylphosphonate