

Reactivity of functionalized phosphonates 1. Acid-base properties and reactivity of methyl esters of alpha-aminophosphonic acids

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Abstract

Acid-base properties and reactivity of series of alpha-aminophosphonates has been investigated. The reaction of addition of the aminophosphonates to phenylisocyanate was used as a model reaction. The influence of steric and electronic effects of substituents at alpha-carbon or nitrogen in amino group on the mechanism inversion from AdN to AdE is discussed.

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Keywords

Aminophosphonates, Basicity, Mechanism, Phenylisocyanate, Reactivity, Substituent effect