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New aminophosphonates (aminophosphine oxides) containing acetal groups in reactions with polyatomic phenols

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Abstract

© 2016 Taylor & Francis Group, LLC. A wide range of phosphorylated α -, β -, γ -aminoacetals of various structure were obtained by Kabachnik-Fields reaction. Acid-catalyzed reactions of phenols with α -, β -, γ -aminoacetals provide a new approach to the synthesis of different polyphenols, containing aminophosphonate and aminophosphine oxide moieties, arylsubstituted heterocycles containing phosphonate and phosphinoyl groups. Herein we present a short overview of these reactions.

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Keywords

Aminoacetal, aminophosphine oxide, aminophosphonate, polyphenols