

Russian Journal of Organic Chemistry 2005 vol.41 N9, pages 1260-1264

Reactions of allenylphosphonates with 2-aminoethanol and amines

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Abstract

Dialkyl 3-methyl-1,2-butadienylphosphonates take up 2-aminoethanol, butylamine, diethylamine, and morpholine in such a way that the amino nitrogen atom adds at the central carbon of the allene triad. The reactions with primary amines lead to the corresponding 1-phosphoryl-2-amino-1-butenes and isomeric 1-phosphoryl-2-iminobutanes, while secondary amines give rise to 1,2- and 2,3-enamines. © 2005 Pleiades Publishing, Inc.
