

Reaction of pyridoxal and its azomethines with hydrophosphoryl compounds

Kibardina L., Trifonov A., Dobrynin A., Pudovik M., Pudovik E., Burilov A.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© 2016 Taylor & Francis Group, LLC. The products of carbonyl phosphorylation of pyridoxal with alkylphosphinic acid ethyl esters, phosphorous acid dialkyl esters have been obtained for the first time. In some cases, the products of addition are hydrolytically unstable and stabilize by forming internal betaine structures. The reaction of pyridoxal with phosphorous acid in alcohol solutions gives alkoxyfuropyridines possessing the iminium nitrogen atom.

<http://dx.doi.org/10.1080/10426507.2016.1216428>

Keywords

Alkylphosphinic acid ethyl esters, dialkylphosphinous acids, phosphorous acid, phosphorus acid dialkyl esters, pyridoxal