

Comprehensive study of the properties and biological activity of 1-bis(2-alkyl-1*H*-azol-1-yl)methanimines

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Abstract

We implemented one and two-stage synthesis of new azolides of iminocarbonic acid. For the first time we study hydrolytic stability of azolides of iminocarbonic acid in neutral aqueous medium. Basing on quantum-chemical calculations show that the different conformers of compounds molecules may have unequal reactivity in interaction with nucleophilic agents, Taking into account this factor we suggest a number of changes in reactivity of molecules of iminocarbonic acid azolides. The biological activity of 1,1'-bis(1*H*-azol-1-yl)methanimines is studied and active influence on hematopoiesis in laboratory animals is shown.