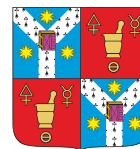




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P11-18. New insights on the 1,3-dipolar cycloaddition of benzimidazolium ylides

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Even if the cycloaddition reaction of the benzimidazolium ylides to dipolarophiles was used since 1972, there are still some unsolved issues regarding the way that cycloaddition products (dihydropyrrolo[1,2-a]benzimidazole derivatives) are stabilized.

Depending on the reaction conditions they used, some authors obtained pyrrolo[1,2-a]benzimidazole derivatives [1,2], while others indicated the formation of pyrrolo[1,2-a]quinoxalin-4(5H)-one derivatives [3,4].

Having in view the above consideration and our background in the cycloimmonium ylides area [5,6], we decided to investigate the cycloaddition reaction of the benzimidazolium ylides, with dimethylacetylene dicarboxylate (DMAD) as dipolarophile in order to elucidate the reaction mechanism.

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