Facile Regioselective Synthesis of 1,2,6,8-Tetraazaspiro[4.4]nona-2,6-dien-9-ones

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Z. Naturforsch. 55b, 222–226 (2000); received November 2, 1999

5(4H)-Oxazolones, 4H-Imidazol-4-ones, Hydrazonoyl Chlorides, 1,2,6,8-Tetraazaspiro[4.4]-nona-2,6-dien-9-ones, Dipolar Cycloaddition

1,3-Dipolar cycloaddition reaction of nitrilimines to a variety of 3-aryl-5-arylmethylidene-3,5-dihydro-2-phenyl-4H-imidazol-4-ones (3) afforded the corresponding 1,3,4,7,8-pentaaryl-1,2,6,8-tetraazaspiro[4.4]-nona-2,6-dien-9-ones (4) and not the regio-isomers 2,3,6,8,9-pentaaryl-1,3,7,8-tetraazaspiro[4.4]nona-1,6-dien-4-ones (5) in high regioselectivity.