

Cyclization of Thioureas from the Series of 4-Aryl(hetaryl)spinaceamines

N. V. Astashkina, D. A. Lomov, M. G. Abramyan, N. I. Korotkikh, and N. N. Smolyar[†]

*Litvinenko Institute of Physical Organic and Coal Chemistry, National Academy of Sciences of Ukraine,
ul. Rozy Lyuksemburg 70, Donetsk, 83114 Ukraine
e-mail: abramyan@ua.fm*

Received May 7, 2014

Abstract—Reaction of allylthiocarbamoyl fragment of N-allylthioureas with excess bromine or iodine leads to the formation of 5-halomethyldihydrothiazole ring as confirms the dehydroiodination of the 5-(5-iodomethyl-4,5-dihydro-1,3-thiazol-2-yl)-4-phenyl-4,5,6,7-tetrahydro-1*H*-imidazo[4,5-*c*]pyridine with the formation of a 5-methylthiazole ring. The reaction of allylthiourea with hydrochloric acid affords a 5-methyldihydrothiazole ring.

DOI: 10.1134/S1070428014110189