

Ethyl 3-Amino-3-selenoxopropanoate as a New Reagent for the Synthesis of Selenium-Containing Heterocycles

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Abstract—Interaction of ethyl cyanoacetate with hydrogen selenide afforded new reagent for obtaining selenium-containing heterocycles such as ethyl 3-amino-3-selenoxopropanoate. Starting from the latter substituted selenazoles and ethyl 3-selenoxo-2,3,5,6,7,8-hexahydroisiquinoline-4-carboxylates were synthesized. The structure of the obtained compounds was confirmed by IR, NMR spectroscopy and gas chromatography-mass spectrometry.

Keywords: cyanoacetic ester, selenide, ethyl 3-amino-3-selenoxopropanoate, substituted selenazoles ethyl 3-selenoxo-2,3,5,6,7,8-hexahydroisiquinoline-4-carboxylates, S_NV in reaction

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