

**VII International Conference**  
**Chemistry of Nitrogen Containing**  
**Heterocycles**



**CNCH-2015**

9-13 November, 2015  
Kharkov, Ukraine

**Book of Abstracts**

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## Heterocyclization of N-Alkenyl Derivatives of Thiothiopyrimidinone by Aryltellurium Trichloride

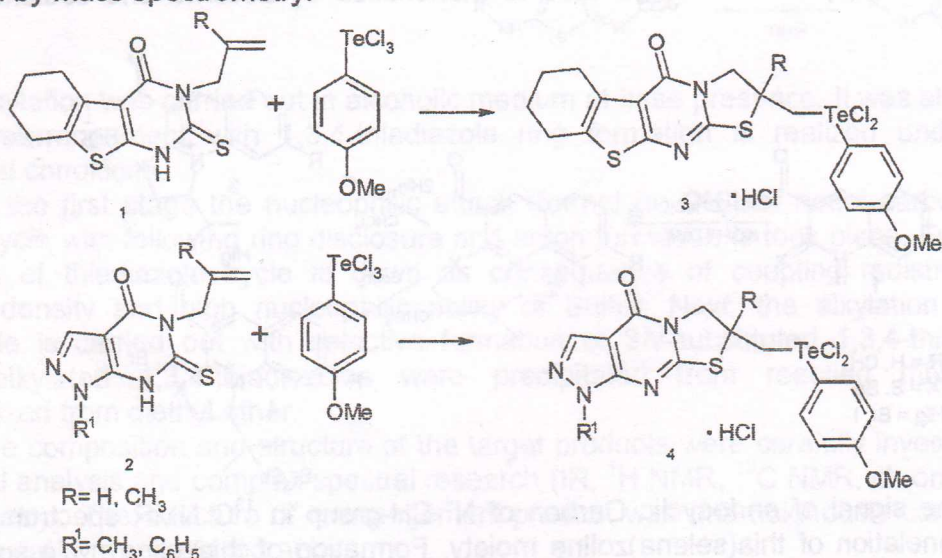
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Tellurium-containing organic compounds are an important object of study because of their unique physical, chemical and biological properties.

The electrophilic heterocyclization of unsaturated substrates under tellurium tetrahalides is widely used to obtain tellurium-containing poly-condensed heterocyclic systems, while application for these purposes of aryltellurium trihalogenides practically is not described in literature.

The N-allyl and N-methallyl derivatives of thiothiopyrimidinone **1**, **2** was selected as the objects for research of halogenheterocyclization. The heterocyclization of **1**, **2** was carried out under action of *p*-methoxyphenyltellurium trichloride in glacial acetic acid medium, chloroform or acetonitrile at different temperatures. The optimum conditions were turned using acetic acid at room temperatures. As the results, the linear cyclic structure salt-like systems **3.4** with exocyclic tellurium moiety had been obtained, that is confirmed by mass spectrometry.



The composition and structure of the target products were studied due to elemental analysis and complex spectral research (IR,  $^1\text{H}$  NMR,  $^{13}\text{C}$  NMR, chromatography-mass spectrometry).

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