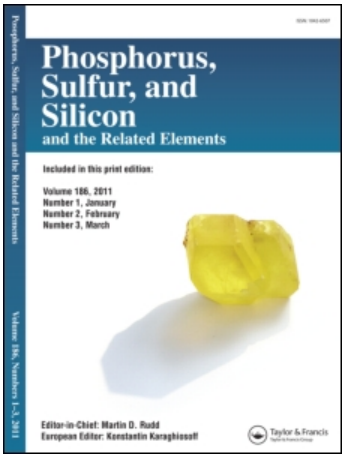

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A NOVEL METHOD FOR THE PREPARATION OF SUBSTITUTED 5-AMINO-1,2,3, 4-THIATRIAZOLES BY AZA-TRANSFER REACTION

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A NOVEL METHOD FOR THE PREPARATION OF SUBSTITUTED 5-AMINO-1,2,3, 4-THIATRIAZOLES BY AZA-TRANSFER REACTION

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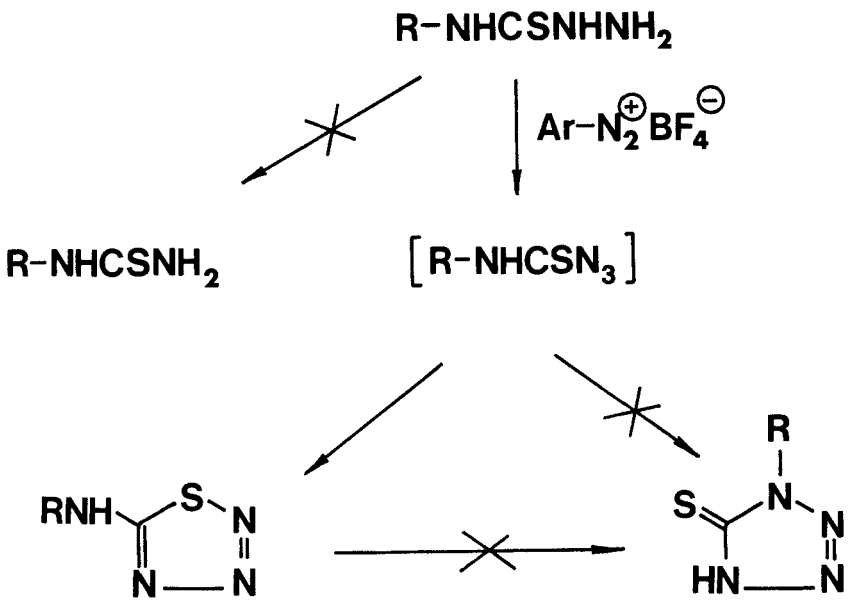
Recently, the aza-transfer reactions between amino or hydrazino compounds and aryldiazonium salts or heterocyclic diazo compounds have been studied. In general, a mixture of different products is formed.

In this communication we shall report on the reaction between thiosemicarbazide or 4-substituted thiosemicarbazides and aryldiazonium salts. We found that in this reaction, although either substituted 5-amino-1,2,3,4-thiatriazoles or substituted tetrazoline-5(4H)-thiones could be formed among other possibilities, only 5-substituted-1,2,3,4-thiatriazoles were isolated.



This reaction represents a novel efficient method for the preparation of substituted 5-amino-1,2,3,4-thiatriazoles and another example of the application of the "solid nitrous acid" as the reagent for the aza-transfer reactions in sulphur containing compounds.