

## Optimization of industrial methods for producing 5-amino-3-mercapto-1,2,4-triazole and 5-amino-3-methylthio-1,2,4-triazole

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**Keywords:** heterocyclization, alkylation, 3-amino-5-methylthio-1,2,4-triazole, dimethyl sulphate, ammonium rhodanate, aminoguanidine carbonate.

### Abstract

Optimization of methods for producing 3-amino-5-mercapto-1,2,4-triazole (heterocyclization) and 3-amino-5-methylthio-1,2,4-triazole (methylation of SH-group) was performed in order to issue products on the industrial scale. We analyzed the main factors affecting the efficiency of the process (the methods of synthesis used, temperature conditions, methods of isolation and purification, and so on).