



## Synthesis of Cinnoline Substituted Triazoles with Greener Procedures and Antibacterial Evaluation

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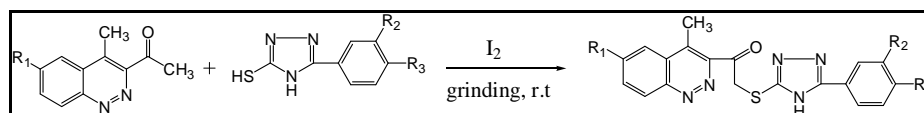
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### ABSTRACT

3-Acetyl-4-methyl-6-substituted-cinnolines have been condensed with 3-substituted-5-mercapto-1,2,4-triazoles using iodine crystals as catalyst by room temperature grinding to give 3-substituted-5-(4-methyl-6-substituted-cinnolin-3-yl)acylthio-1,2,4-triazoles. Synthesis of cinnoline-triazoles by grinding technique provides high yields and avoids additional use of deleterious organic solvents. The synthesized compounds have been characterized by spectral interpretations and their antibacterial potential has been described against diverse bacteria's.

### Graphical Abstract



**Keywords:** 3-Substituted-5-mercapto-1,2,4-triazoles, 3-Acetyl-4-methyl-6-substituted-cinnolines, Iodine crystals, Grinding technique.