

ONE-POT SYNTHESIS OF HETEROCYCLIC COMPOUNDS  
USING CYCLOPROPENIUM SALT AS A STARTING MATERIAL

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We have been studied the syntheses of various heterocyclic compounds by the ring expansion reaction of tris(t-butylthio)cyclopropenium perchlorate (1) with nucleophiles. We report here new syntheses of 1,3,4-triazole, 1,3,4-thiadiazole, 1,2,4-oxadiazole and 1,3,5-triazine derivatives by the reactions of 1 with benzamidrazones, thiosemicabazides, benzamidoxime and biguanide, respectively. Preparation of 5,6-dihydropyrrolo[2,1-a]isoquinoline from 1 and tetrahydroisoquinoline is also reported.