

## Synthesis of Condensed 1,3,4-Thiadiazines

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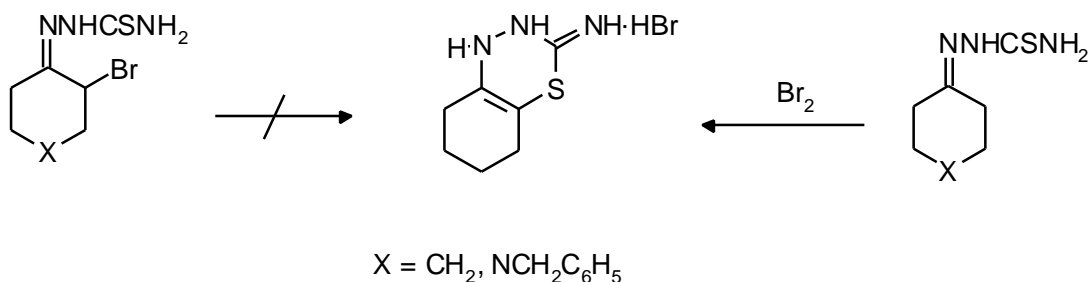
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It is known that derivatives of 1,3,4-thiadiazines show the various physiological activity. The potentially biologically active condensed 1,3,4-thiadiazines with a six-membered ring can be prepared using cyclization of thiosemicarbazones of  $\alpha$ -halogen cycloketones.

It was found that the cyclization of thiosemicarbazones of a -halogen cyclohexanones can not be performed due to the axial orientation of halogen in these compounds. However, the formation of condensed 1,3,4-thiadiazines was observed when thiosemicarbazones of six-membered cycloketones react with bromine.



The structures of heterocyclic compounds were confirmed by IR spectra and  $^1\text{H}$  and  $^{13}\text{C}$  NMR spectra.