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SYNTHESIS AND SOME REACTIONS OF DIFFERENT CYCLIC THIOETHERS (MIDDLE RING SIZE)

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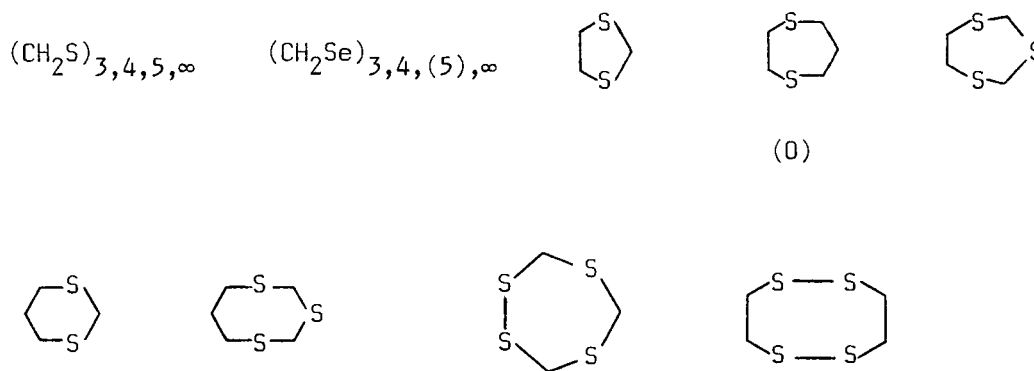
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SYNTHESIS AND SOME REACTIONS OF DIFFERENT CYCLIC THIOETHERS (MIDDLE RING SIZE)

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Starting from conventional compounds such as H_2S , CH_2O , CH_2Cl_2 , Na_2S , Na_2Se , $\text{HS}-(\text{CH}_2)_{2,3}-\text{SH}$, $\text{Br}-(\text{CH}_2)_{2,3}-\text{Br}$ or the less common materials $\text{HS}-(\text{CH}_2\text{S})_{1,2,3}-\text{H}$, $\text{Br}-\text{CH}_2-\text{S}-\text{CH}_2-\text{Br}$ and $\text{Br}-\text{CH}_2-\text{S}(\text{Se}-\text{CH}_2)_n-\text{Br}$, the following ring compounds have been synthesized:



Their behaviour has been studied with respect to

Substitution reactions

Polymerisation and copolymerisation

Oxydative ring cleavage

Reductive ring cleavage

Oxydation of S (and Se) atoms

Adduct-formation with halides (Ag, Hg, As, Sb, Bi, Sn, B, Ti)

Rearrangement reactions.