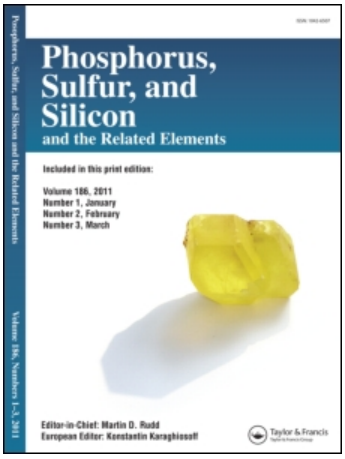

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SYNTHESIS AND SOME REACTIONS OF DIFFERENT CYCLIC THIOETHERS (MIDDLE RING SIZE)

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

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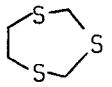
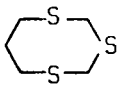
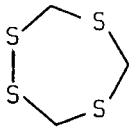
Starting from conventional compounds such as H_2S, CH_2O, CH_2Cl_2, Na_2S, Na_2Se, $HS\text{-}(CH_2)_{2,3}\text{-}SH$, $Br\text{-}(CH_2)_{2,3}\text{-}Br$ or the less common materials $HS\text{-}(CH_2S)_{1,2,3}\text{-}H$, $Br\text{-}CH_2\text{-}S\text{-}CH_2\text{-}Br$ and $Br\text{-}CH_2\text{-}S(Se\text{-}CH_2)_n\text{-}Br$, the following ring compounds have been synthesized:

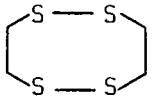
$(CH_2S)_{3,4,5,\infty}$ $(CH_2Se)_{3,4,(5),\infty}$

(O)









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.