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### EXCHANGE REACTIONS OF ACETALS WITH 1,3- OXATHIO AND 1,3-DITHIOCYCLANES

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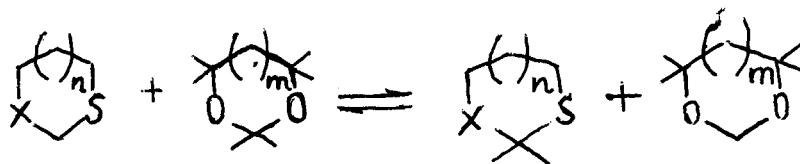
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# EXCHANGE REACTIONS OF ACETALS WITH 1,3-OXATHIO AND 1,3-DITHIOCYCLANES

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Oxides, thioxy, oxythiols and dithiols were used as predecessors of heterocycles with sulphur atom in a ring. Substituted 1,3-oxathio- and 1,3-dithiocycloalkanes were obtained as a result of exchange reaction with acetals:



$$m, n = 0, 1, 2$$

$$x = \text{O, S}$$

Basic kinetic parameters of the reaction were defined. It was found that the limiting stage is splitting heterocycle along carbon-heteroatom bond and reactivity value is proportional to the value of electron density on a heteroatom.