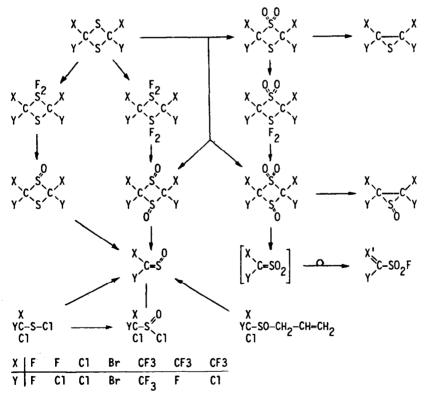
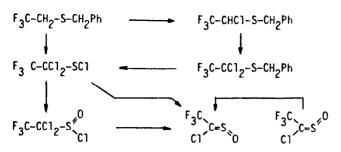
SYNTHESIS OF PERHALOGENATED SULFINES AND SULFENES VIA DIRECT FLUORINATION OF 1,3-DITHIETANES

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Oxidation of perhalogenated 1.3-dithietanes leads to numerous compounds of the different series of 1.3-dithietane-S-oxides, which in part can be converted to thiiranes or sulfines, respectively. But the most convenient method for the preparation of 1.3-dithietane-1.3-dioxides as precursors for the sulfine generation, has been found by direct fluorination of 1.3-dithietanes and subsequent reaction of the S-difluorides with silica. Finally the sulfines were obtained by FVP the 1.3-dioxides as well as in special examples by three different methods. Preparations, properties and typical reactions of the sulfines will be reported. They are valuable intermediates for cycloaddition or polymerization reactions.



For $GF_3(C1)CSO$ a different way has been elaborated. The E- and Z-isomers could be prepared as well as in the case of FC1CSO.



All sulfines react with alcohols, amines, etc. Species which are unstable at room temperature were identified via Diels-Alder addition reaction. This is demonstrated by the example of $(CF_3)_2CSO$.

