

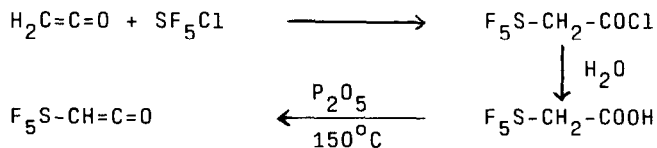
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## PENTAFLUOROTHIO-KETENE – PREPARATION AND REACTIONS

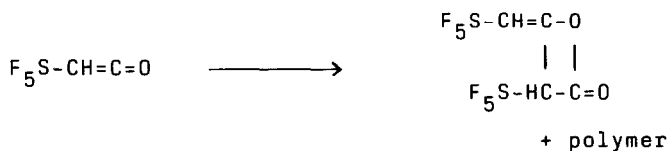
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The new ketene  $F_5S-CH=C=O$  can be prepared in a three step synthesis.



The colourless liquid (b.p.  $47^\circ C$ ) can be handled in air and dimerises slowly with partial polymerisation at room temperature.



In the gas phase at  $280^\circ C$  isomerisation of the ketene is observed forming a new alkylidene sulfur tetrafluoride.

