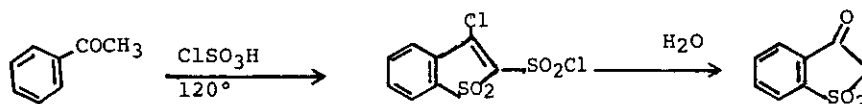


AN INVESTIGATION INTO THE CHLOROSULFONATION
OF ACETOPHENONE AND SOME DERIVATIVES

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The reaction of acetophenone with chlorosulfonic acid produces as the major isolable product 3-chloro-2-chlorosulfonylbenzo[b]thiophene-1,1-dioxide in contrast to previous reports in the literature. This compound can be converted to benzo[b]thiophen-3-one-1,1-dioxide by hydrolysis.



Certain substituted acetophenones give analogous products while others react without the thiophene ring being formed, generating α -chloro- β -chlorosulfonylstyrene derivatives.