TRIFLUOROMETHYL SUBSTITUTED CUMULATED 1,3-OXATIOLS AND 1,4-OXATIANS

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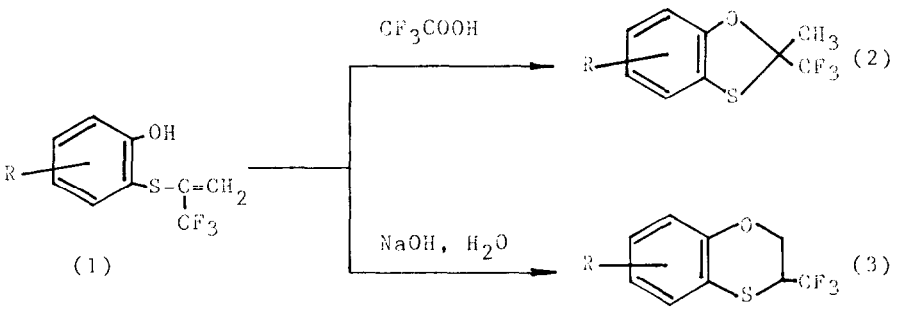
Recently obtained [1] ortho-(trifluoroisopropenyltio)phenols (1) were the key materials for the synthesis of cumulated sulfur and oxygen containing heterocycles. They could be cyclised by heating in CF_3COOH to afford the benzo-1,3-oxatiols (2) in good yields. The reaction is catalysed by strong acids. On the other hand, treatment of (1) by aqueous NaOH at 80°C leads to benzo-1,4-oxatians (3) in excellent yields



Particularitis of this transformation and oxydation reactions of oxatians were studied.

1 A.Yu. Sizov, A.F. Kolomietz and A.V. Fokin, Izv. Akad. Nauk SSSR, Ser. Khim., 832 (1990)