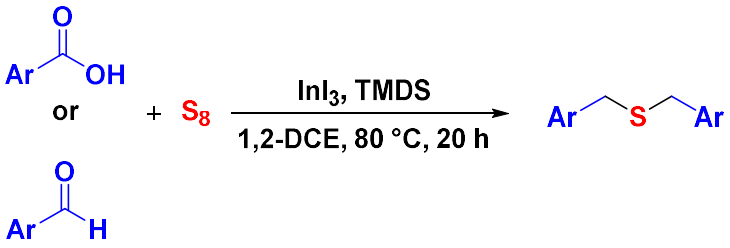
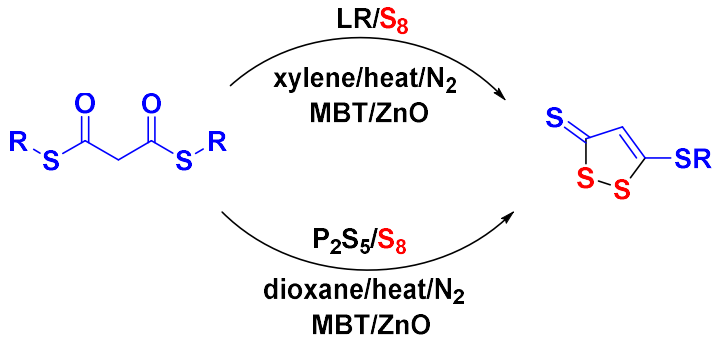
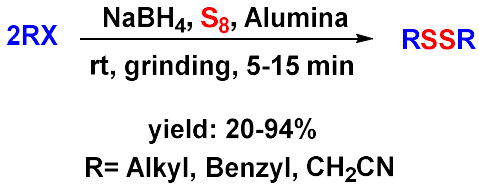
(F) Miyazaki and co-workers synthesized symmetrical benzyl sulfides from corresponding aromatic carboxylic acids or aldehydes and S_8 as sulfidation agent. They utilized InI_3 as catalyst. The described reaction did occur in the presence of 1,1,3,3-tetramethyldisiloxane (TMDS) and 1,2-dichloroethene (1,2-DCE) as solvent at 80ºC [9].



(G) One-pot synthesis of 3*H*-1,2-dithiole-3-thione derivatives has been reported using P_2S_5/S_8 in boiling xylene or Lawesson's reagent (*LR*)/ S_8 in boiling dioxane and 2-mercaptobenzothiazole (MBT) in the presence of ZnO as catalyst. The reaction has been done under N_2 atmosphere. Lawesson's reagent system proceeded reaction cleaner than those using P_2S_5/S_8 [10].



(H) Symmetrical dialkyl disulfides have been prepared from their corresponding alkyl halides and tosylates. The reaction carried out using $NaBH_4/S_8$/wet neutral alumina under mild and solvent free conditions [11].



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