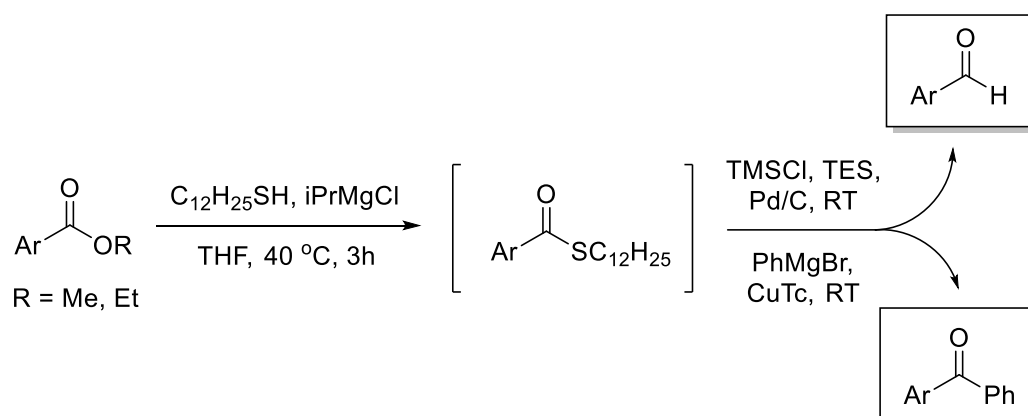


## A Novel and General Method for Preparation of Thioesters: In Quest of Direct Conversion of Esters to Aldehydes and Ketones

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Thioesters are versatile and key intermediates for preparing various useful carbonyl compounds such as ketones, aldehydes, and so on. Although thioesters have been derived in various synthetic routes, we recently developed a new protocol by treating the corresponding esters with thiols in the presence of <sup>i</sup>PrMgCl.<sup>1</sup> Herein, we report a direct one pot conversions of esters to aldehydes and ketones: the reaction of the in situ generated thioesters with TMSCl (thiol scavenger) followed by reduction (triethylsilane and Pd/C) afforded the corresponding aldehydes,<sup>2,3</sup> while one pot reaction of the in situ generated thioesters with Grignard reagents and CuTc produced the corresponding ketones.



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