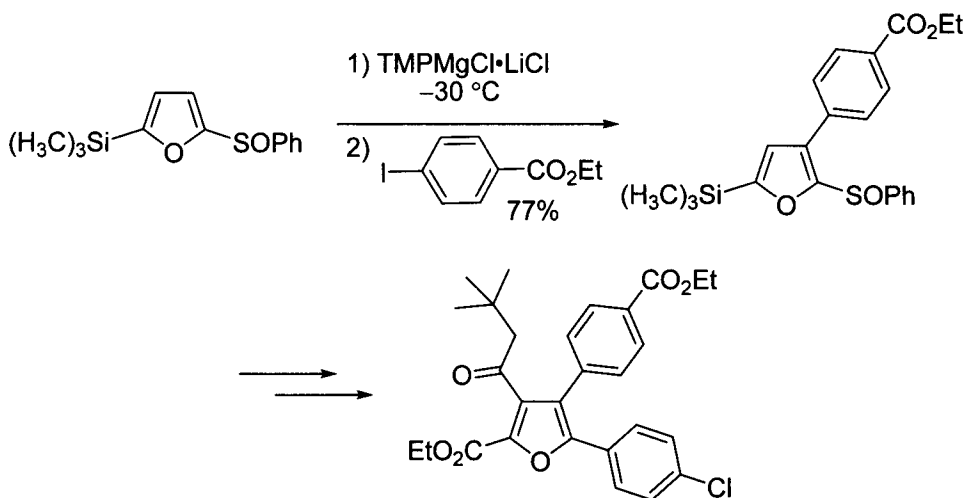


Metal–Halogen Exchange

Knochel and co-workers used a magnesium–halogen exchange reaction with $\text{TMPMgCl}\cdot\text{LiCl}$ to generate 3-arylsulfinylfurans.¹² The authors went on to illustrate the utility of this method by demonstrating that an iterative magnesium–halogen exchange approach could be used to functionalize all four positions on the furan ring in a sequential and selective fashion.



Friedel–Crafts Reaction

A regioselective Friedel–Crafts acylation was used to synthesize a novel derivative of amiodarone, a pharmaceutical compound used to treat ventricular and supraventricular arrhythmias.¹³ Treatment of 2-methylbenzofuran with tin(IV) chloride in the presence of *p*-methoxybenzoyl chloride gave the desired product, 3-*p*-methoxybenzoyl-2-methylbenzofuran, in 63% yield.