Arylamino-thieno-oxobutanamides under Lawesson´s conditions: competition between thienylpyrrole and bithiophene formation

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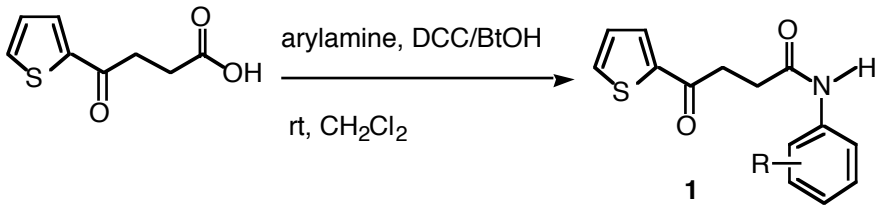
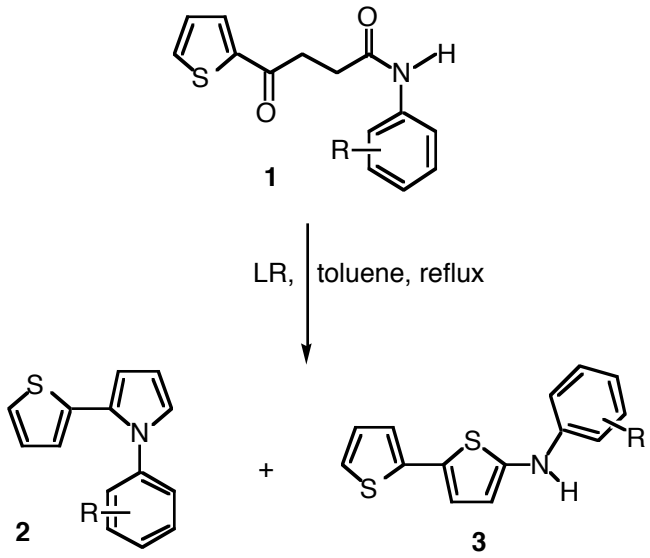
Abstract - 1-Aryl-2-thienyl-substituted pyrroles **2** and/or 5-arylamino-2,2´-bithiophenes **3** were synthesized by treatment of arylamino-thieno-oxobutanamides **1** with Lawesson´s reagent. These in turn were prepared by direct amidation of 4-oxo-(2-thienyl)butanoic acid through DCC/BtOH mediated reactions.

Keywords: amides, substituent effects, pyrroles, bicyclic compounds, heterocycles.



Scheme 1



Scheme 2