

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

M. Manuela M. Raposo^{*a}, Ana M. B. A. Sampaio^a and G. Kirsch^b

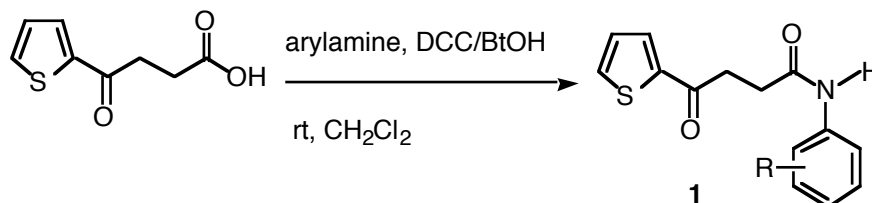
^a Centro de Química, Universidade do Minho, Campus de Gualtar
4710-057 Braga, Portugal

^b Laboratoire d'Ingénierie Moléculaire et Biochimie Pharmacologique,
UFR SciFA/Université de Metz 1, Boulevard Arago, Metz Technopôle, 57078 Metz
Cedex 3, France

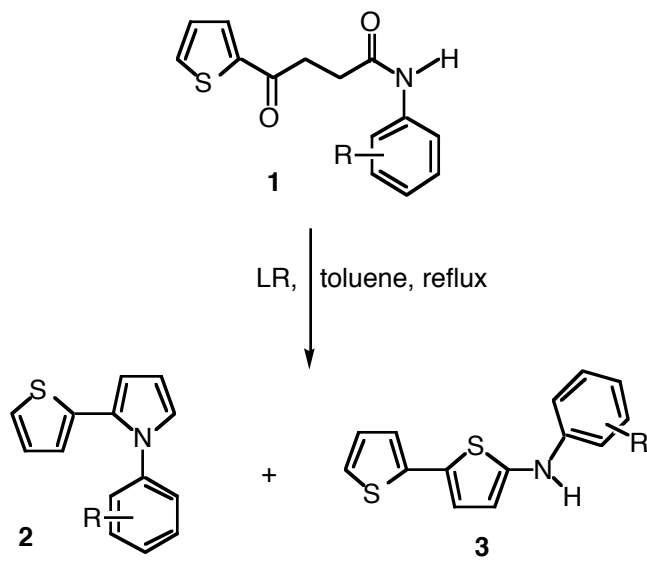
Fax +351 253 678983; e-mail: mfox@quimica.uminho.pt

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