Pyrrole derivatives

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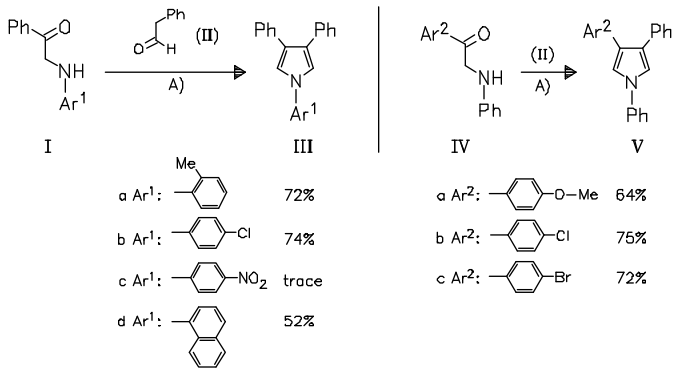
I_2-Catalyzed Synthesis of Substituted Pyrroles from α-Amino Carbonyl Compounds and Aldehydes. — A direct method for the synthesis of 1,3,4-trisubstituted pyrroles is achieved easily from cyclization of α-anilino carbonyl compounds and aldehydes catalyzed by iodine. The reaction is quite sensitive to electronic and steric influences; aliphatic aldehydes like butanal do not give the desired product. — (YAN, R.; KANG, X.; ZHOU, X.; LI, X.; LIU, X.; XIANG, L.; LI, Y.; HUANG*, G.; J. Org. Chem. 79 (2014) 1, 465-470, http://dx.doi.org/10.1021/jo402620z ; State Key Lab. Appl. Org. Chem., Lanzhou Univ., Lanzhou, Gansu 730000, Peop. Rep. China; Eng.) — H. Haber



A): 1 equiv. $ZnCl_2$, mol. sieves, 10 mol% I_2 (cat.), toluene, 100°C