

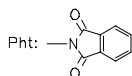
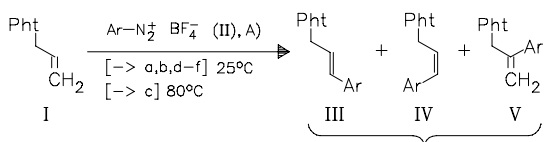
Amines

Q 0120

05- 061

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Substrate-Directable Heck Reactions with Arenediazonium Salts. The Regio- and Stereoselective Arylation of Allylamine Derivatives and Applications in the Synthesis of Naftifine and Abamides. — The presence of a carbonyl or tosyl group is necessary for a successful reaction. This method is applied to the synthesis of the bioactive compounds naftifine (XIII) and the abamides (XVII). Effective and selective arylation of homoallylic amides is also possible. — (PREDIGER, P.; BARBOSA, L. F.; GENISSON, Y.; CORREIRA*, C. R. D.; J. Org. Chem. 76 (2011) 19, 7737-7749, <http://dx.doi.org/10.1021/jo201105z>; Inst. Quim., Univ. Estadual Campinas, 13084 Campinas, Sao Paulo, Brazil; Eng.) — Jannicke



a Ar: -Ph 99% (93:4:3)

b Ar: 96% (86:9:5)

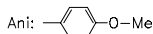
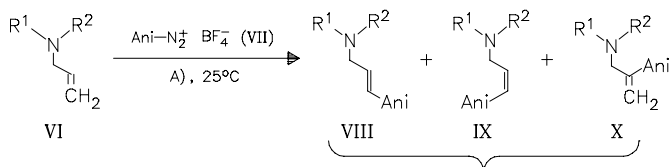
c Ar: 86% (92:6:2)

d Ar: 82% (93:5:2)

e Ar: 93% (92:3:5)

f Ar: 98% (98:0:2)

A): NaOAc, Pd₂(dba)₃dba (cat.), PhCN



a R¹: -CO-O-Me; R²: -Boc 93% (91:5:4)

b R¹: -Ac; R²: -Boc 98% (92:3:5)

c R¹, R²: -Boc 83% (93:2:5)

d R¹, R²: -Me 0%

e R¹: -Boc; R²: -H 77% (89:2:9)

f R¹: -Bz; R²: -H 60% (100:0:0)

g R¹: -CHO; R²: -H 72% (100:0:0)

h R¹: -Ac; R²: -H 99% (91:8:1)

i R¹: ; R²: -H 91% (87:4:9)

j R¹: -Tos; R²: -H 98% (100:0:0)

