Efficient and selective synthesis of *E*-vinylamines *via* tungsten(0)-catalyzed hydroamination of terminal alkynes.

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Streszczenie

CH= phenylacetylene, 4-methylphenylacety- lene, 4-fluorophenylacetylene, 1-hexyne, methyl 2- propynyl ether, prop-2-yn-1-ol) with secondary amines (piperidine, pyrrolidine, morpholine, pipera- zine, methylpiperazine, 4-methylpiperidine and 3- methylpiperidine) was achieved in high yield (up to 99%), regioselectivity (only anti-Markovnikov product) and stereoselectivity (only E-isomers) within a maximum of 5 h in reactions catalyzed by the tungsten tetracarbonyl complex cis-[W(CO)4(piperidine)2]at90 8C without any addi- tional solvent."

Słowa kluczowe

E-enamines, hydroemination reaction, secondary amines, terminal alkynes, Tungsten catalyst

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