

(Z)-Ethyl 2-phenyl-1-(2-vinylphenyl)vinylcarbamates. Part 1: Synthesis and preliminary studies on their divergent transformation into benzo[c]phenanthridines and 2-phenyl-1,4-naphthoquinones

Treus, M., Salas, C. O., Gonazález, M. A., Estévez, J. C., Tapia, R. A., & Estévez, R. J. (2010). (Z)-Ethyl 2-phenyl-1-(2-vinylphenyl) vinylcarbamates. Part 1: Synthesis and preliminary studies on their divergent transformation into benzo [c] phenanthridines and 2-phenyl-1, 4-naphthoquinones. Tetrahedron, 66(52), 9986-9995. <10.1016/j.tet.2010.10.035> Accessed 11 Jul 2021.

Abstract

Treatment of N-carbethoxy-1-benzylideneisoquinolines with LDA gives N-ethoxycarbonyl-1-amino-1-(2-vinylphenyl)-2-phenylethylenes, which can easily be transformed into N-carbethoxy-1-amino-2-phenylnaphthalenes. Bischler–Napieralski reaction of these latter compounds affords the corresponding benzo[c]phenanthridines, while their hydrolysis and subsequent oxidation constitutes a novel route to 2-phenyl-1,4-naphthoquinones..

Keywords

Stilbenes, Isoquinolines, Benzo[c]phenanthridines, Naphthoquinones, Nitro compounds.