ELSEVIER

Tetrahedron

Tetrahedron Vol. 63, No. 51, 2007

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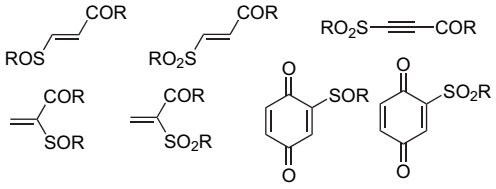

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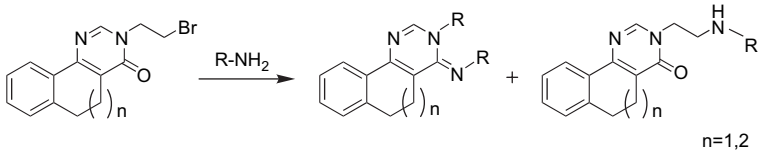
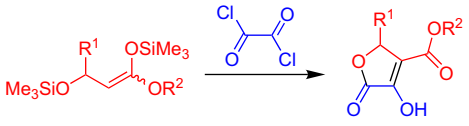
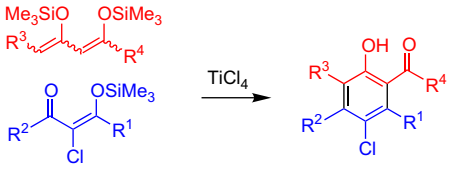
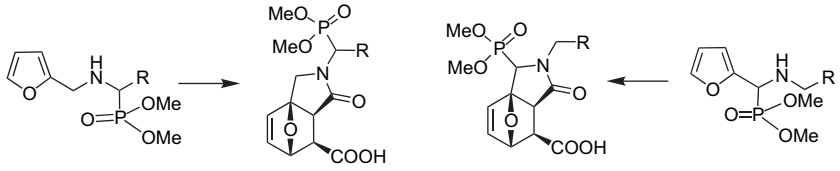
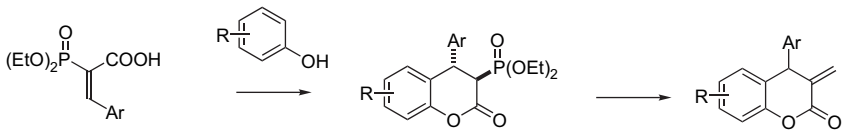


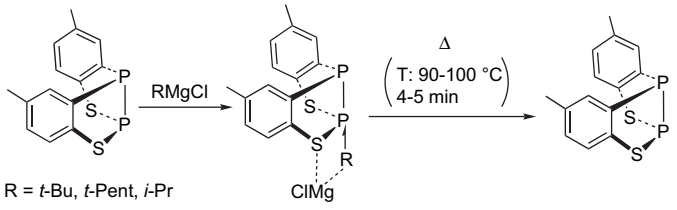


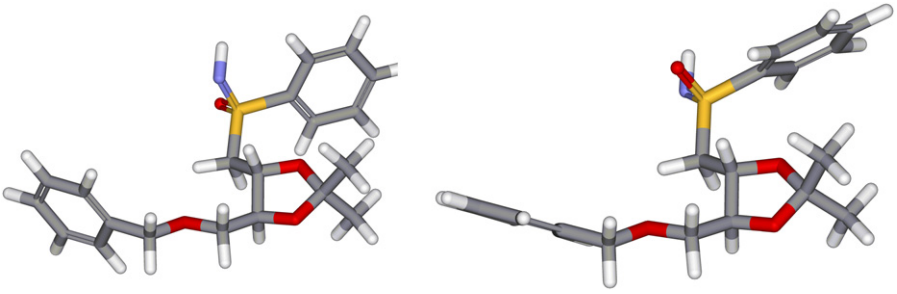


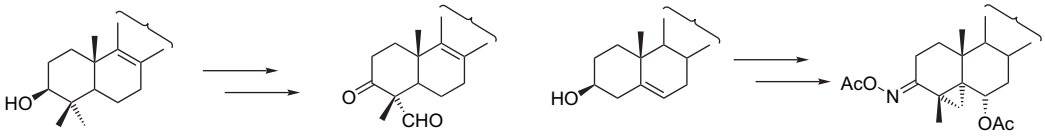


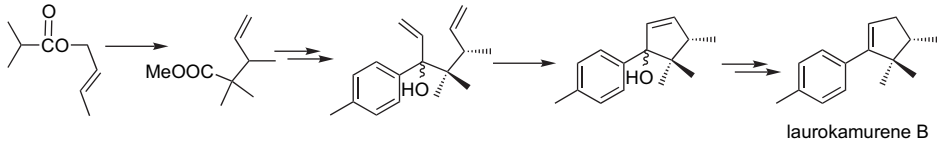
α-Acylaminophosphonates **6** possessing an epoxyisoindolone moiety were prepared with a good stereoselectivity (de≥80%) by a tandem acylation/[4+2]-cycloaddition reaction between maleic anhydride and α-aminophosphonates derived from a furfurylamine.

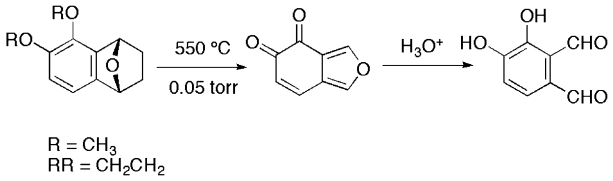


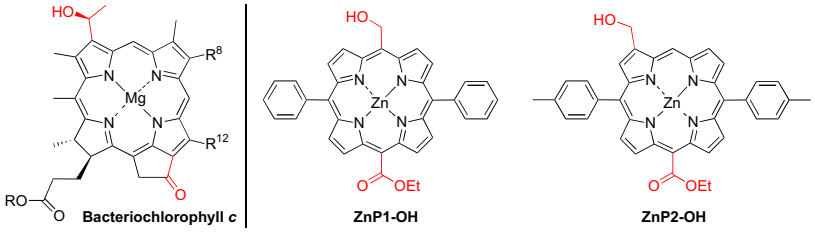




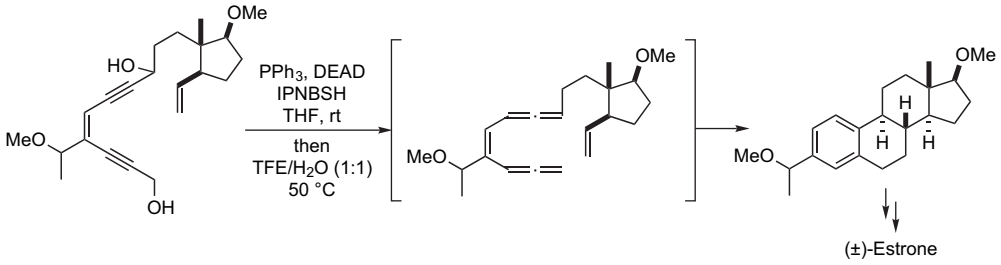


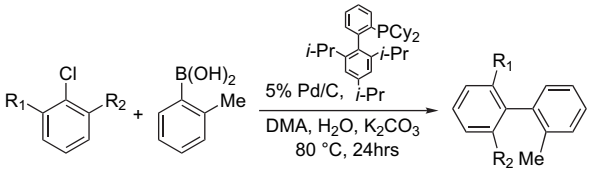


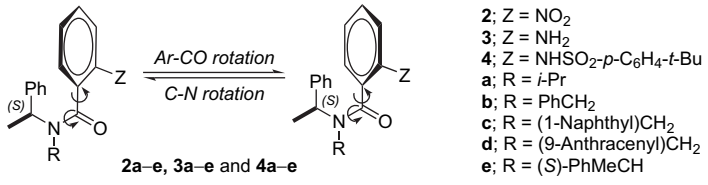


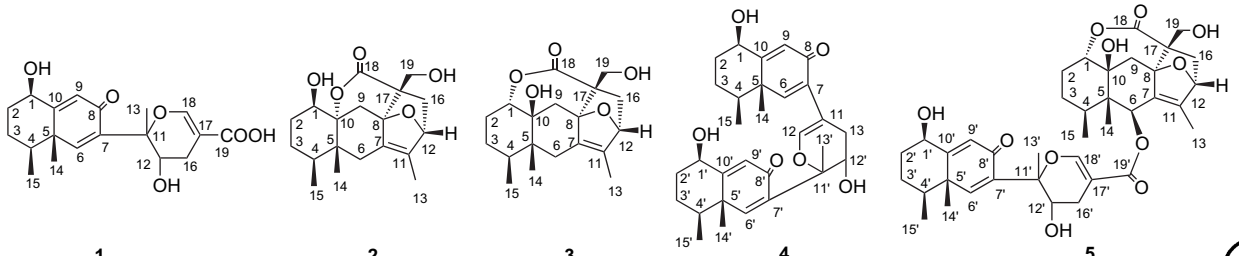


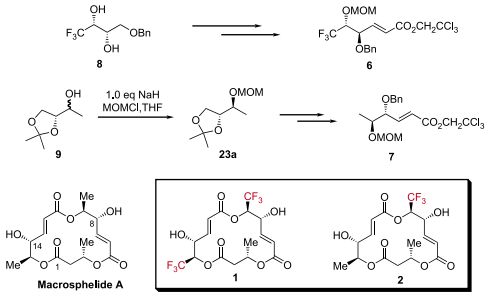
A porphyrin (**ZnP2-OH**) has been prepared and found in the crystalline state to exhibit infinite coordination polymers that are distinct from those of the analogue **ZnP1-OH**.

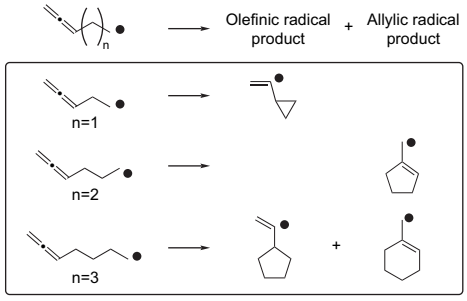


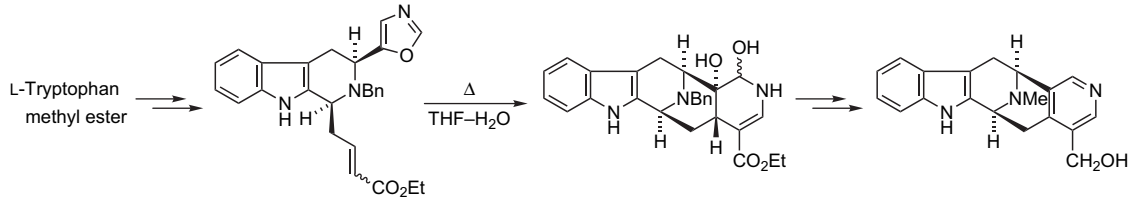


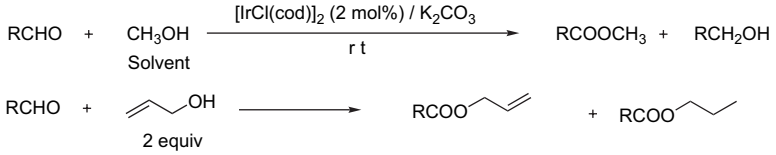


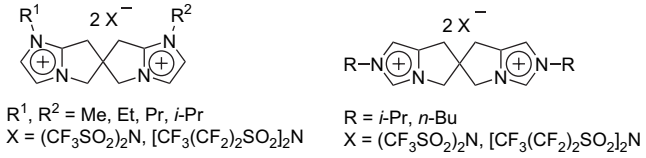


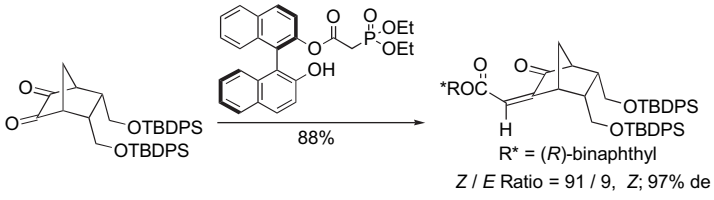


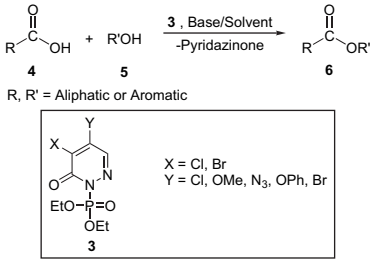


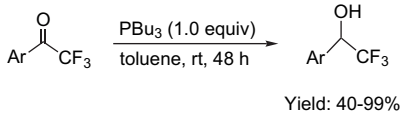




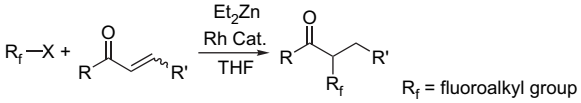


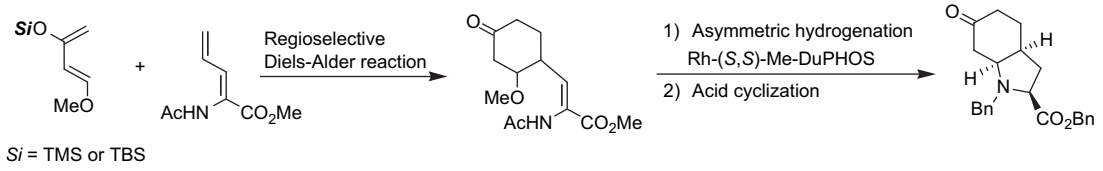


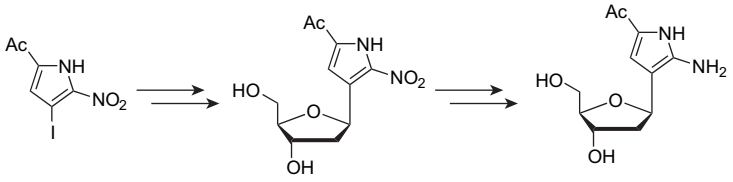


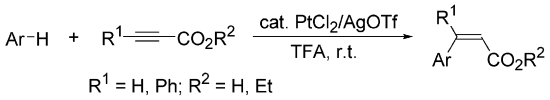


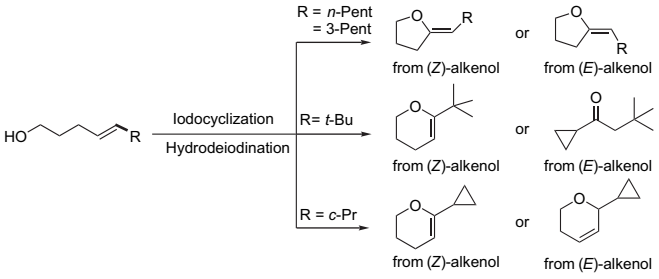
In the presence of alkyl phosphines, reduction of 2,2,2-trifluoro-1-arylethanones proceeded smoothly to give the corresponding reduction products in moderate to high yields at room temperature. The possible mechanism was discussed on the basis of deuterium labeling and control experiments, indicating that one hydrogen transfer took place from alkyl phosphine to the carbonyl group activated by a strongly electron-withdrawing trifluoromethyl group.

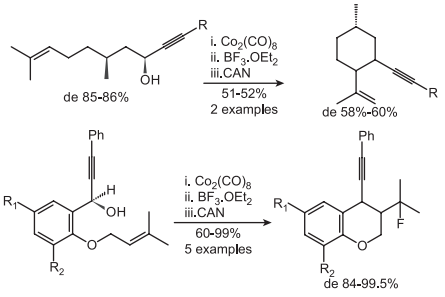


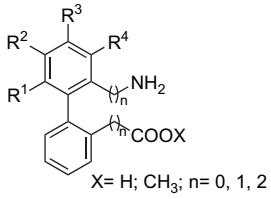


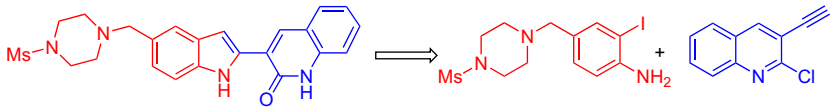


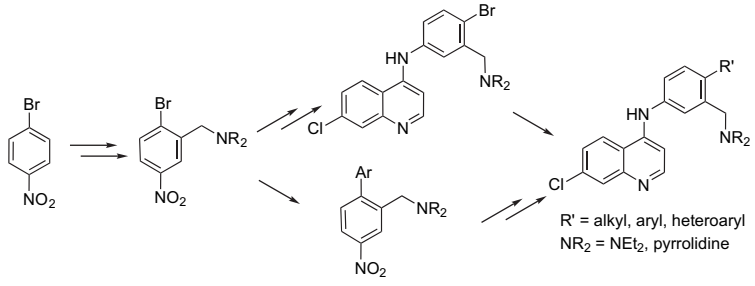












*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

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ISSN 0040-4020