

EPOXIDATION OF TERMINAL OLEFINS WITH CHIRAL IRON(II)PORPHYRINS

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Studies using metalloporphyrins as oxygenating catalysts were stimulated by the attempts to model the activity of the cytochrome P-450 family of heme enzymes. The rigid macrocyclic core of porphyrins make them attractive templates for building asymmetric catalysts. Catalysts, with a C₂ symmetry, have been prepared, and showed high enantiomeric excess numbers for asymmetric epoxidation of terminal olefins with PhIO. Preliminary results of corroles and other macrocycles synthesis will be presented.

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