

Asymmetric ring opening of terminal epoxides catalyzed by bimetallic chiral (salen) Co complex via-hydrolytic kinetic resolution

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Epoxides are versatile building blocks for the organic synthesis and terminal epoxides are arguably the most important subclass of these compounds. In the present study kinetic resolution of terminal epoxides with water as nucleophile catalyzed by new readily synthesized bimetallic chiral (salen) Co complex provides practical method for their production in enantiomerically pure form. Reactions are conveniently carried out at ambient temperature under the air atmosphere.