

Highly reactive and enantioselective hydrolytic kinetic resolution of terminal epoxides using
new chiral (salen) Co: AlCl₃ complex

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A wide variety of highly selective asymmetric reactions catalyzed by chiral (salen) metal complexes have been disclosed over the past decade. The solvent free hydrolytic kinetic resolution (HKR) of terminal epoxides catalyzed by a new chiral (salen) Co: AlCl₃ complex is described. The catalyst shows high reactivity and selectivity in good yields of > 98 % ee under ambient condition within 1 h.