Kinetic resolution of terminal epoxides with phenols catalyzed by (salen) Co-BF3 immobilized on meso/ micro porous silicates

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A route to synthesize porous materials with a meso/ microscopic pore system has been investigated in this work. These meso/ micro porous structured silicates have been applied as a support in the kinetic resolution of epichlorohydrine with phenol to synthesize optically pure α-arloxy alcohols. The catalyst has been prepared by immobilization of (Salen) Co-BF3 on MCM-41, MCM-48, and on the surface of SiO2. The immobilized salen catalysts showed a high enantioselectivity in the kinetic resolution.