An Organo Porous Polymer Catalyst for Asymmetric Alkylation with Et₂Zn

**Preparation of the TADDOL-CPP catalyst:**

1. Mg, I₂, THF, 80 °C, 7 h
2. K₂CO₃, MeOH, r.t., 2 h

**Significance:** A chiral α,α,α',α'-tetraaryl-1,3-dioxolane-4,5-dimethanol-based chiral porous polymer (TADDOL-CPP) was prepared and applied to the asymmetric alkylation of aromatic aldehydes with Et₂Zn in the presence of [Ti(Oi-Pr)₄] to give the corresponding products **1a-i** in up to 96% yield with up to 94% ee.

**Comment:** The TADDOL-CPP as well as the TADDOL-CPP/Ti catalysts were characterized by ¹³C CP/MAS NMR spectroscopy, TGA, BET, XRD, TEM and ICP analyses. TADDOL-CPP was recovered by centrifugation and reused ten times to give **1a** with slight loss of the catalytic activity (91% ee to 75% ee).