

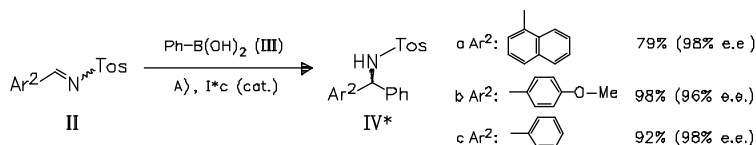
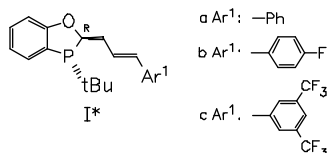
Polyphenylalkane derivatives

Q 0720

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14- 115

**Development of New P-Chiral P, $\pi$ -Dihydrobenzooxaphosphole Hybrid Ligands for Asymmetric Catalysis.** — The title ligands (I) are successfully applied to the catalytic asymmetric addition of boronic acids to tosylamines to afford the corresponding amines with high enantioselectivities. — (SIEBER\*, J. D.; et al.; Org. Lett. 16 (2014) 20, 5494-5497, <http://dx.doi.org/10.1021/ol5027798>; Dep. Chem. Dev., Boehringer Ingelheim Pharm. Inc., Ridgefield, CT 06877, USA; Eng.) — Mais



A): proton sponge, Rh<sub>2</sub>Cl<sub>2</sub>(CH<sub>2</sub>=CH<sub>2</sub>)<sub>4</sub>/KOH (cat.)  
toluene, 60°C, [6 h]

