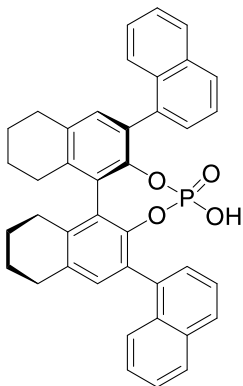


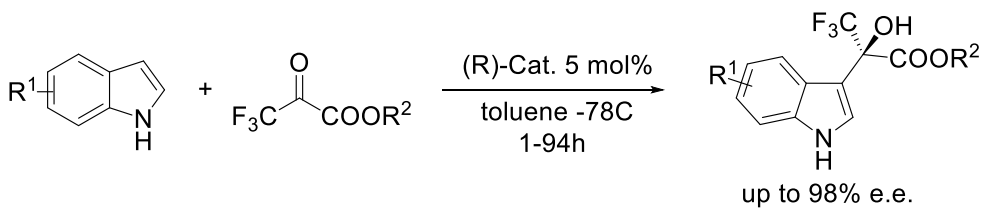
Catalog # 15-1383

(11bR)-8,9,10,11,12,13,14,15-Octahydro-4-hydroxy-2,6-di-1-naphthalenyl-4-oxide-dinaphtho[2,1-d:1',2'-f][1,3,2]dioxaphosphepin, 95%, (98.5% ee)

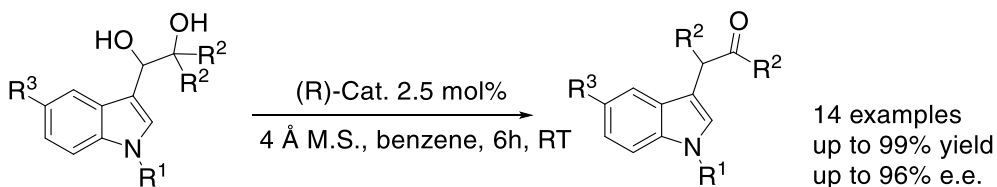


## Technical Notes:

- Friedel-Crafts Alkylation:** Chiral phosphoric acid catalyzed Friedel-Crafts alkylation of indoles with 3,3,3-trifluoropyruvate gave the corresponding adducts in excellent yields with high enantioselectivities.
- Pinacol Rearrangement:** It has been found that indolyl diols can be treated with chiral phosphoric acids to effect a regio- and enantioselective pinacol rearrangement with high efficiency.



**Tech Note (1)**  
**Ref. (1)**



**Tech Note (2)**  
**Ref. (2)**

## References:

- Asian J. Chem.*, **2010**, *5*, 470-472.
- Angew. Chem. Int. Ed.*, **2010**, *49*, 9734-9736.