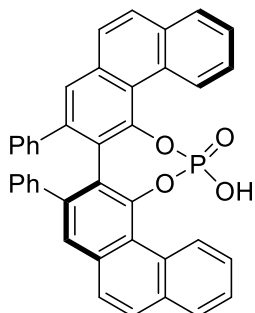
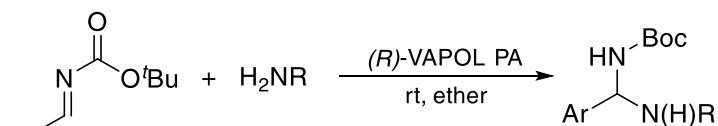


Catalog # 15-8554 (8aR)-18-Hydroxy-8,9-diphenyl-18-oxide-diphenanthro[4,3-d:3',4'-f] [1,3,2] dioxaphospepin, 98%, (99% ee)

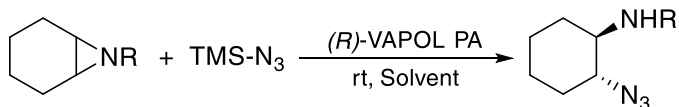


#### Technical Notes:

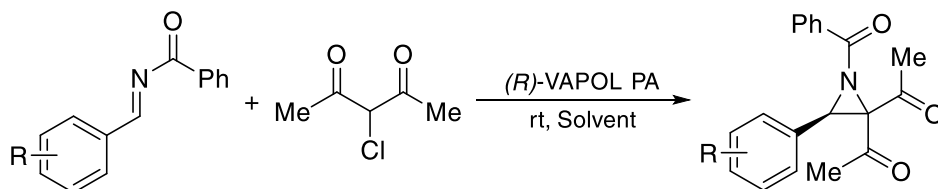
1. Organocatalyst for amidation of imines.
2. Organocatalyst for desymmetrization of *meso*-aziridines.
3. Chiral Brønsted acid used in catalytic asymmetric aza-Darzens aziridine synthesis.
4. Organocatalyst for the remote  $\alpha$ -C–H bond activation of alcohols or amines triggered by the radical trifluoromethylation of alkenes.
5. Used in the enantioselective Pd/Brønsted acid-catalyzed carbonylative carbocyclization of enallenes via cross-dehydrogenative coupling with terminal alkynes.
6. Co-catalyst used in Co/achiral pyridine ligand catalyzed enantioselective radical oxytrifluoromethylation of alkenes with alcohols.
7. Used in the enantioselective synthesis of tropanes via Brønsted acid catalyzed pseudotransannular desymmetrization.



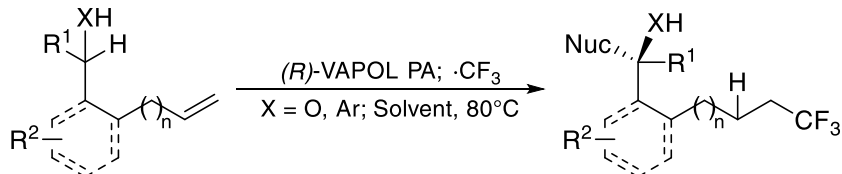
**Tech Note (1)**  
**Ref. (1)**



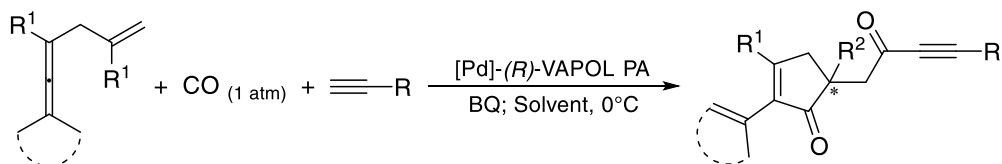
**Tech Note (2)**  
**Ref. (2)**



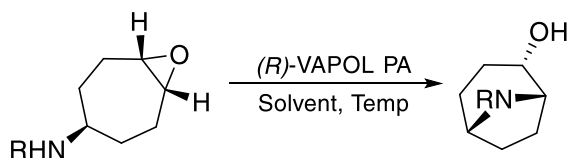
**Tech Note (3)**  
**Ref. (3)**



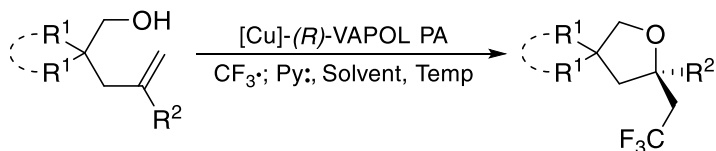
**Tech Note (4)**  
**Ref. (4)**



Tech Note (5)  
Ref. (5)



Tech Note (6)  
Ref. (6)



Tech Note (7)  
Ref. (7)

## References:

1. *J. Am. Chem. Soc.* **2005**, *127*, 15696.
2. *J. Am. Chem. Soc.* **2007**, *129*, 12084.
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