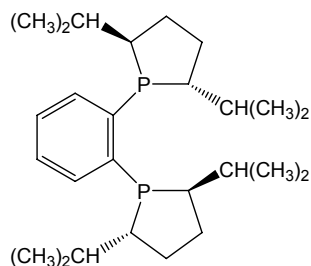
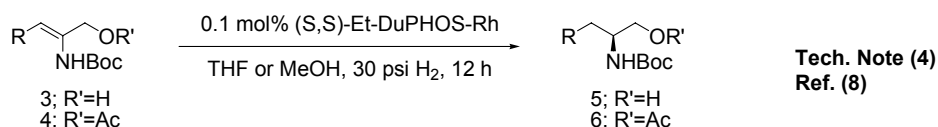
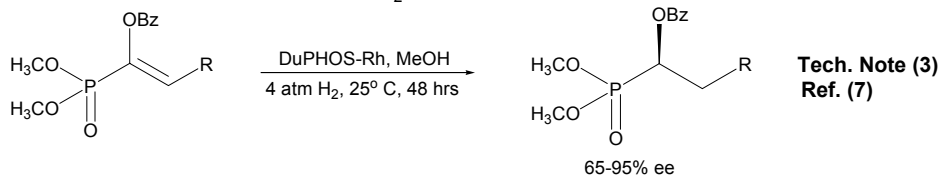
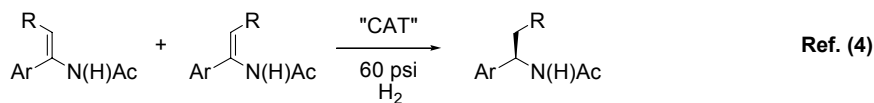
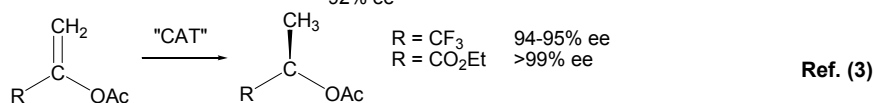
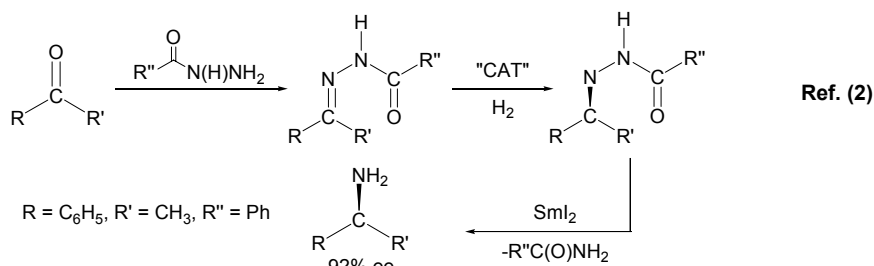
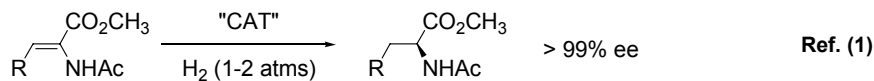
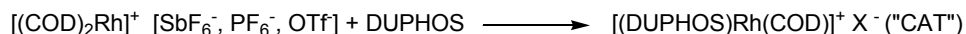


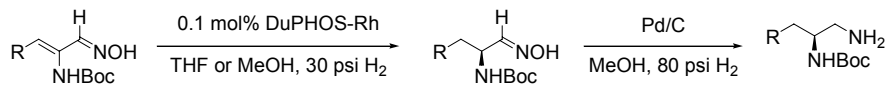
Catalog # 15-0410 (+)-1,2-Bis((2R,5R)-2,5-di-i-propylphospholano)benzene, 98+% (R,R)-i-Pr-DUPHOS



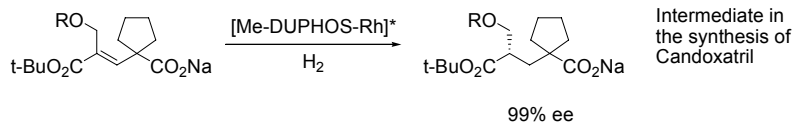
**Technical Notes:**

1. The DUPHOS family of catalysts is highly efficient for the asymmetric hydrogenation of various substituted acetamidoacrylates and enol acetates yielding products of high enantiomeric excesses. Efficient ligand for the asymmetric hydrogenation of tetrasubstituted enamides.<sup>5</sup>
2. Forms superior catalysts for asymmetric reductive aminations.
3. Catalyst used for the asymmetric hydrogenation of enol phosphonates.
4. A novel enantioselective synthesis of  $\beta$ -amino alcohols and 1,2-diamines.
5. Ligand for the catalytic asymmetric [4+1] cycloaddition of vinylallenes with CO.
6. Ligand for the Rh-catalyzed asymmetric enyne cycloisomerization.
7. Catalytic enantioselective addition of dialkylzinc to N-Diphenylphosphinoylimines.
8. Palladium catalyzed asymmetric phosphination.

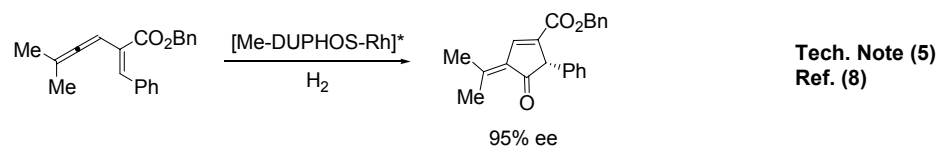




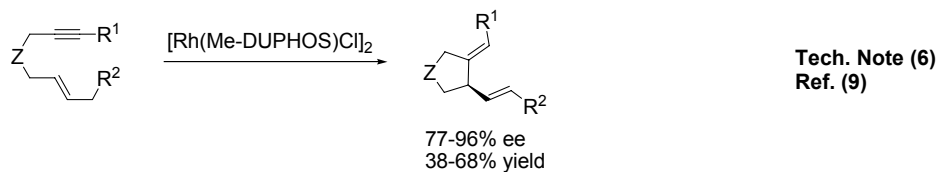
**Tech. Note (4)**  
**Ref. (8)**



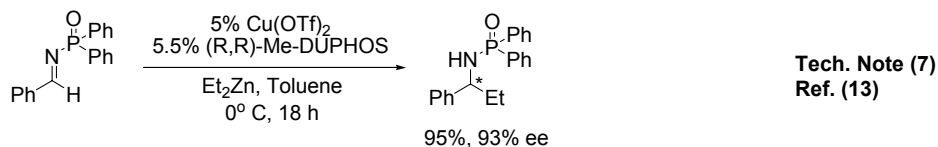
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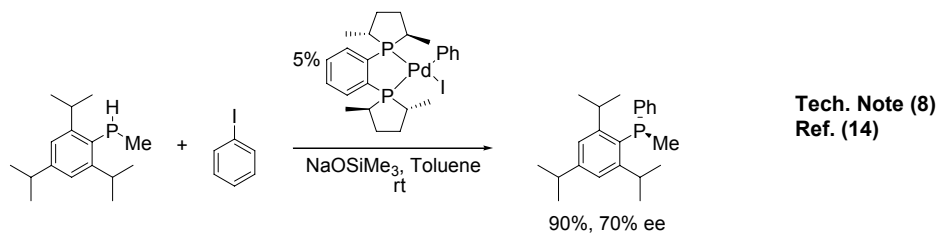
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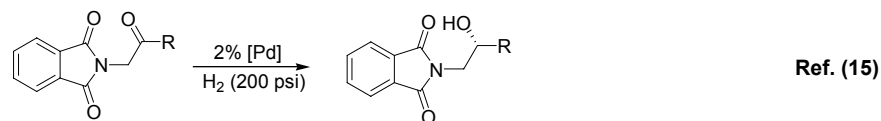
**Tech. Note (6)**  
**Ref. (9)**



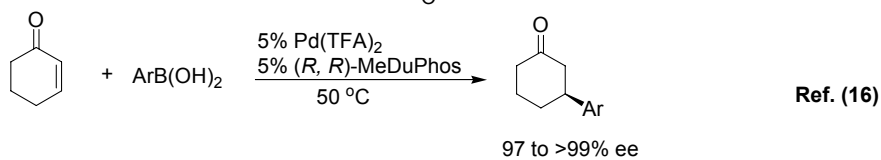
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**Ref. (13)**



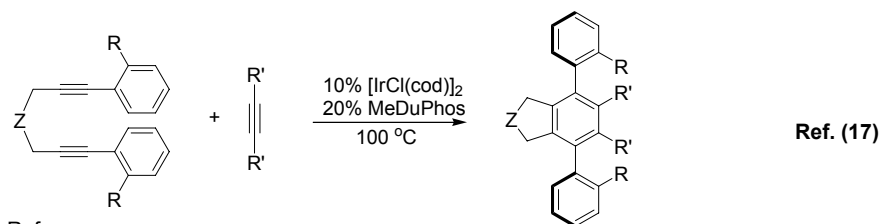
**Tech. Note (8)**  
**Ref. (14)**



**Ref. (15)**



**Ref. (16)**



**Ref. (17)**

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