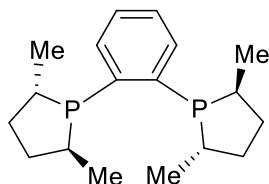
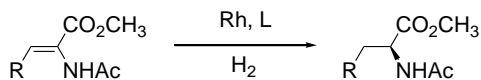


Catalog # 15-0092 (+)-1,2-Bis((2S,5S)-2,5-dimethylphospholano)benzene, min. 98% (S,S)-Me-DUPHOS

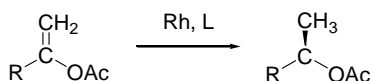


Technical Notes:

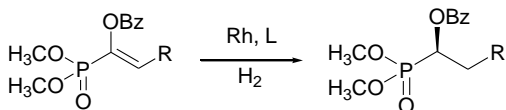
1. The DUPHOS family of catalysts is highly efficient for the asymmetric hydrogenation of various substituted acetamidoacrylates and enol acetates yielding products of high enantiomeric excesses.¹ Efficient ligand for the asymmetric hydrogenation of imines, enamines, and enamides.²
2. Asymmetric hydrogenation of vinyl alcohols.²
3. Catalyst used for the asymmetric hydrogenation of enol phosphonates.⁴
4. Asymmetric hydrogenation of allylic alcohols.⁵
5. Ligand for the catalytic asymmetric [4+1] cycloaddition of vinylallenes with CO.⁵
6. Ligand for the Rh-catalyzed asymmetric enyne cycloisomerization.⁶
7. Catalytic enantioselective addition of dialkylzinc to N-Diphenylphosphinoylimines.⁸
8. Palladium-catalyzed asymmetric phosphination.⁹
9. Palladium-catalyzed asymmetric hydrogenation of carbonyls.¹⁰
10. Palladium-catalyzed 1,4 arylation of α , β -unsaturated ketones.¹¹
11. Asymmetric, Ir-catalyzed, [2+2+2] cycloaddition.¹²
12. Asymmetric palladium-catalyzed synthesis of 2-methyl-indolines via C-H activation.¹³
13. Copper-catalyzed monoborylation of 1,3-Dienes.¹⁴
14. Rhodium-catalyzed enantioselective transmetalation.¹⁵
15. CuH-catalyzed hydroamination of styrenes.¹⁶



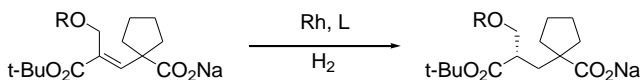
**Tech. Note (1)
Ref. (2)**



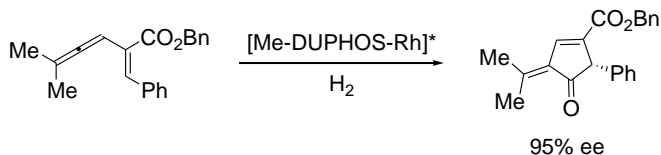
**Tech. Note (2)
Ref. (3)**



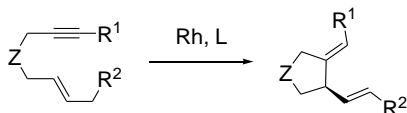
**Tech. Note (3)
Ref. (4)**



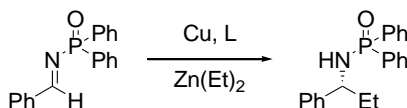
**Tech. Note (4)
Ref. (5)**



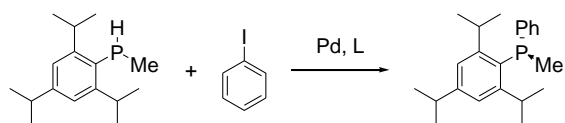
**Tech. Note (5)
Ref. (6)**



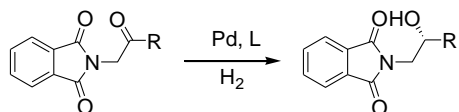
**Tech. Note (6)
Ref. (7)**



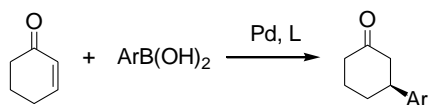
**Tech. Note (7)
Ref. (8)**



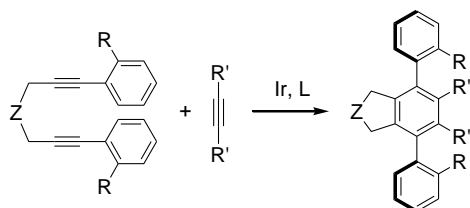
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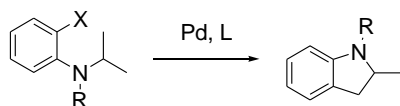
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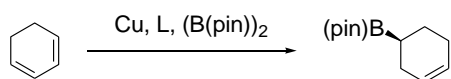
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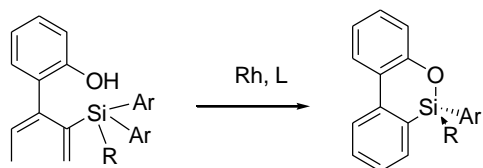
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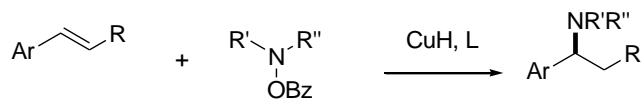
Tech. Note (12)
Ref. (13)



Tech. Note (13)
Ref. (14)



Tech. Note (14)
Ref. (15)



Tech. Note (15)
Ref. (16)

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