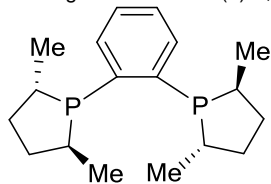
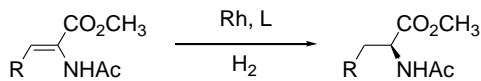


Catalog # 15-0092 (+)-1,2-Bis((2S,5S)-2,5-dimethylphospholano)benzene, 98+% (S,S)-Me-DUPHOS

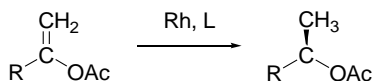


**Technical Notes:**

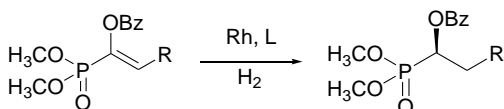
1. The DUPHOS family of catalysts is highly efficient for the asymmetric hydrogenation of various substituted acetamidoacrylates and enol acetates yielding products of high enantiomeric excesses.<sup>1</sup> Efficient ligand for the asymmetric hydrogenation of imines, enamines, and enamides.<sup>2</sup>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



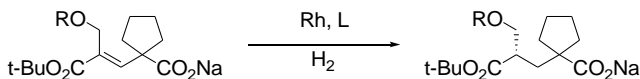
**Tech. Note (1)**  
**Ref. (2)**



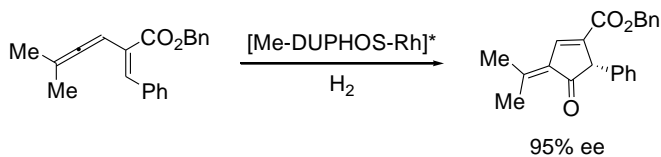
**Tech. Note (2)**  
**Ref. (3)**



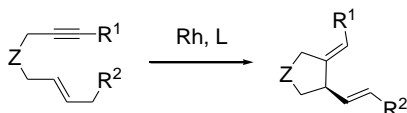
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**Ref. (4)**



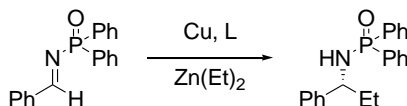
**Tech. Note (4)**  
**Ref. (5)**



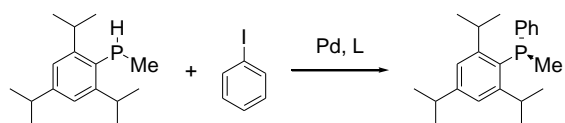
**Tech. Note (5)**  
**Ref. (6)**



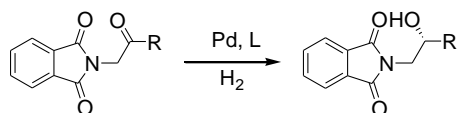
**Tech. Note (6)**  
**Ref. (7)**



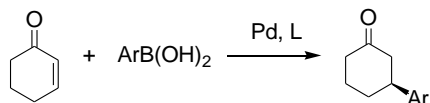
**Tech. Note (7)**  
**Ref. (8)**



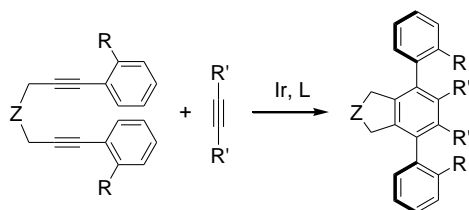
Tech. Note (8)  
Ref. (9)



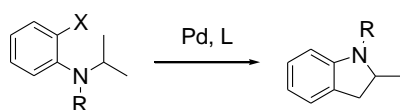
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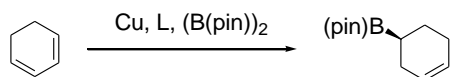
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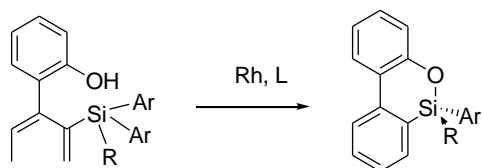
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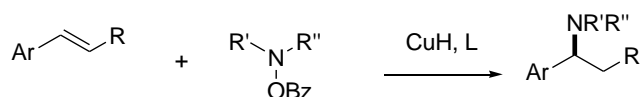
Tech. Note (12)  
Ref. (13)



Tech. Note (13)  
Ref. (14)



Tech. Note (14)  
Ref. (15)



Tech. Note (15)  
Ref. (16)

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