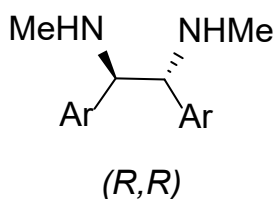
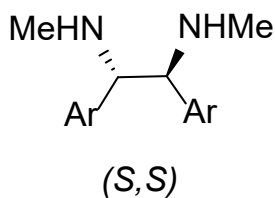


# Chiral vicinal diamine ligands for asymmetric synthesis

Our catalog offers a wide range of chiral vicinal diamines that are used as highly effective steering ligands for transition-metal-catalyzed asymmetric reactions. These types of ligands are of great interest for the synthetic chemist who are working on active pharmaceutical ingredients, natural products, and agrochemicals.



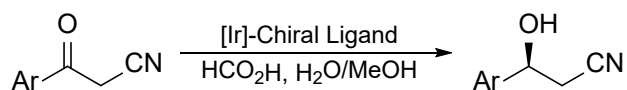
Item #	Ar	Item #	Ar	Item #	Ar
07-3702	Ph	07-3725	<i>o</i> -Tol	07-3749	3,5-Me-Ph
07-3706	4-Cl-Ph	07-3729	2-MeOPh	07-3754	furan-2-yl
07-3710	4-Br-Ph	07-3733	1,1'-BiPh-2-yl	07-3758	thiophen-2-yl
07-3714	<i>p</i> -Tol	07-3737	3-Cl-Ph	07-3761	4-MeOPh
07-3718	2-Cl-Ph	07-3741	3-CF <sub>3</sub> -Ph	07-3765	4-CF <sub>3</sub> -Ph
07-3721	2-Br-Ph	07-3745	3,5-CF <sub>3</sub> -Ph	07-3769	NAP-2-yl



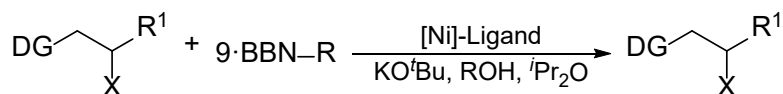
Item #	Ar	Item #	Ar	Item #	Ar
07-3703	Ph	07-3726	<i>o</i> -Tol	07-3750	3,5-Me-Ph
07-3707	4-Cl-Ph	07-3730	2-MeOPh	07-3753	furan-2-yl
07-3711	4-Br-Ph	07-3734	1,1'-BiPh-2-yl	07-3757	thiophen-2-yl
07-3715	<i>p</i> -Tol	07-3738	3-Cl-Ph	07-3762	4-MeOPh
07-3719	2-Cl-Ph	07-3742	3-CF <sub>3</sub> -Ph	07-3766	4-CF <sub>3</sub> -Ph
07-3722	2-Br-Ph	07-3746	3,5-CF <sub>3</sub> -Ph	07-3770	NAP-2-yl

## Technical Notes:

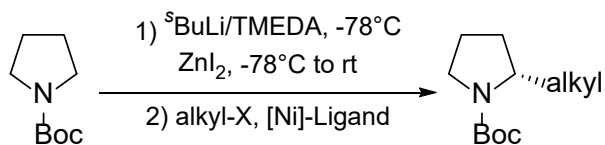
1. Ligand for the asymmetric transfer hydrogenation of ketones catalyzed by iridium complex.
2. Ligand for the Ni-catalyzed stereoconvergent alkyl-alkyl Suzuki cross-coupling reactions.
3. Ligand for the Ni-catalyzed asymmetric Negishi  $\alpha$ -alkylations of N-Boc-pyrrolidine.
4. Ligand for the Ni-catalyzed enantioselective cyclization/cross-coupling with alkyl electrophiles.
5. Ligand for the Cu-catalyzed asymmetric intermolecular N-monoarylation of unprotected sulfonamides.
6. Ligand used for photoinduced Cu-catalyzed asymmetric amidation.



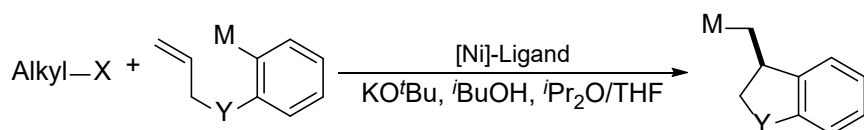
Tech Note (1)  
Ref. (1)



Tech Note (2)  
Ref. (2)



Tech Note (3)  
Ref. (3)



Tech Note (4)  
Ref. (4)

Y = O, CH<sub>2</sub>; M = 9-BBN

## References:

1. *Angew. Chem. Int. Ed.* **2011**, *50*, 8979.
2. *J. Am. Chem. Soc.* **2012**, *134*, 5794.
3. *J. Am. Chem. Soc.* **2013**, *135*, 10946.
4. *J. Am. Chem. Soc.* **2014**, *136*, 3788.
5. *Synlett* **2020**, *31*, 1077.
6. *Nature* **2021**, *596*, 250.

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