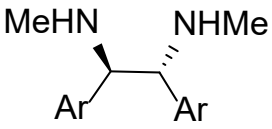
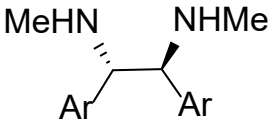
Chiral vicinal diamine ligands for asymmetric synthesis

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.



(R,R)

Item #	Ar	Item #	Ar	Item #	Ar
07-3702	Ph	07-3725	*o*-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	*p*-Tol	07-3737	*3*-Cl-Ph	07-3761	*4*-MeOPh
07-3718	*2*-Cl-Ph	07-3741	*3*-CF_3-Ph	07-3765	*4*-CF_3-Ph
07-3721	*2*-Br-Ph	07-3745	*3,5*-CF_3-Ph	07-3769	NAP-2-yl

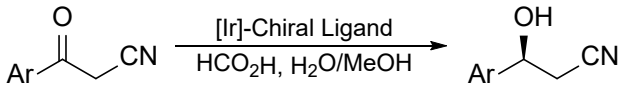


(S,S)

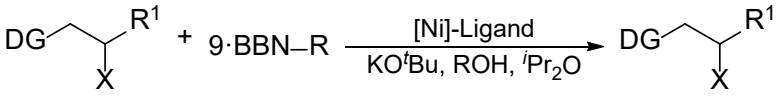
Item #	Ar	Item #	Ar	Item #	Ar
07-3703	Ph	07-3726	*o*-Tol	07-3750	*3,5*-Me-Ph
07-3707	*4*-Cl-Ph	07-3730	*2*-MeOPh	07-3753	furan-2-yl
07-3711	*4*-Br-Ph	07-3734	1,1'-BiPh-2-yl	07-3757	thiophen-2-yl
07-3715	*p*-Tol	07-3738	*3*-Cl-Ph	07-3762	*4*-MeOPh
07-3719	*2*-Cl-Ph	07-3742	*3*-CF_3-Ph	07-3766	*4*-CF_3-Ph
07-3722	*2*-Br-Ph	07-3746	*3,5*-CF_3-Ph	07-3770	NAP-2-yl

Technical Notes:

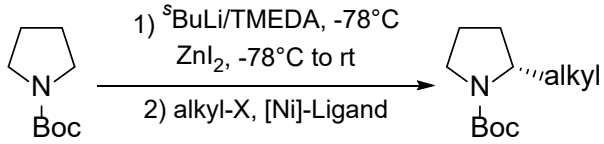
1. Ligand for the asymmetric transfer hydrogenation of ketones catalyzed by iridium complex.
2. Ligand for the Ni-catalyzed stereoconvergent alkyl-alkyl Suzuki cross-coupling reactions.
3. Ligand for the Ni-catalyzed asymmetric Negishi α-alkylations of N-Boc-pyrrolidine.
4. Ligand for the Ni-catalyzed 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.



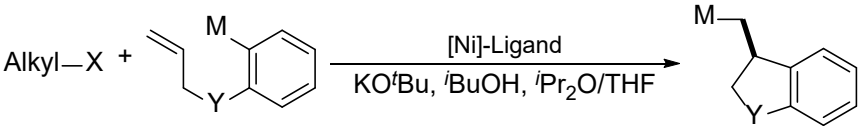
Tech Note (1)
Ref. (1)



Tech Note (2)
Ref. (2)



Tech Note (3)
Ref. (3)



Y = O, CH_2; M = 9-BBN

Tech Note (4)
Ref. (4)

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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Collaboration

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