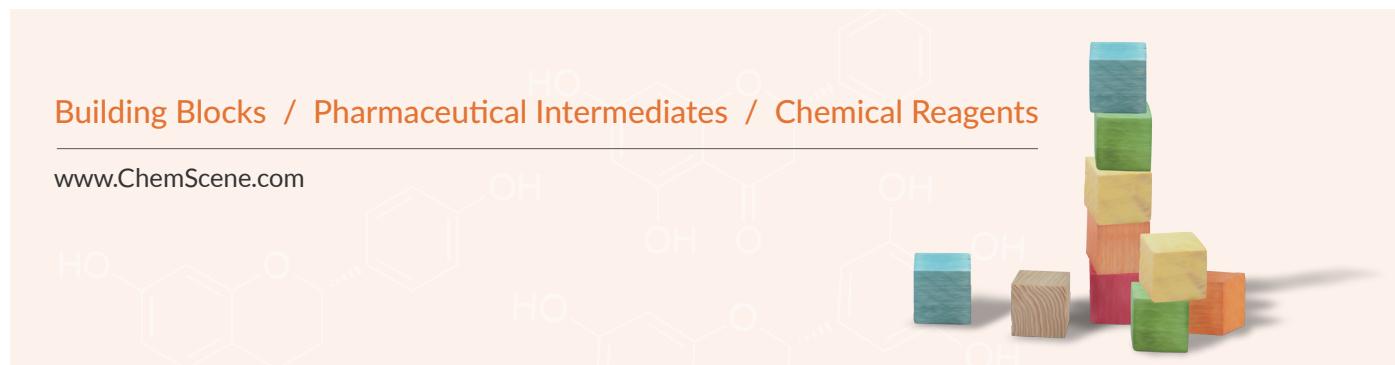


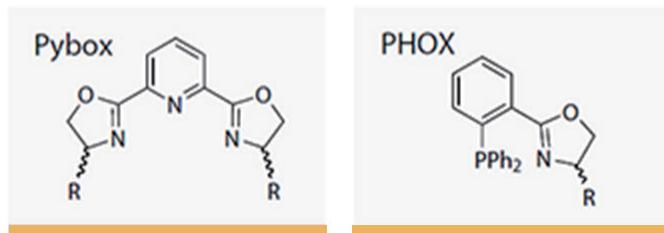
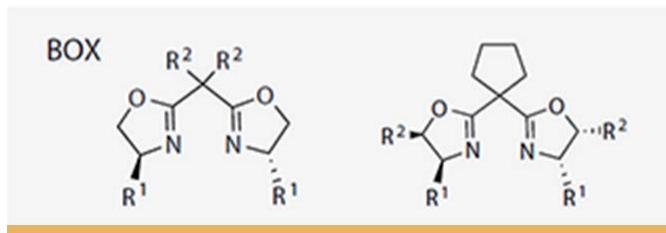
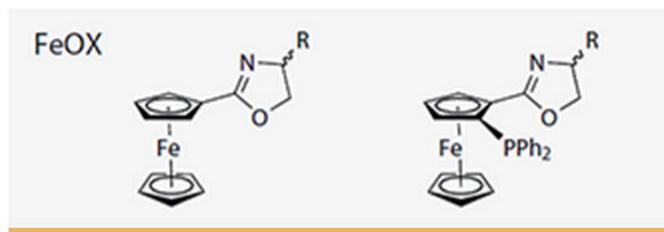
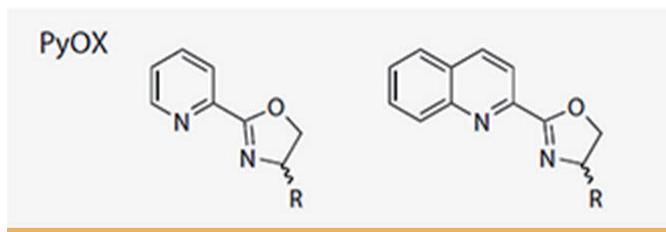
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Oxazoline-based ligands

In 1986, Brunner et al. used PyOX as a ligand for asymmetric reactions, which was the first reported oxazoline-based ligand used in asymmetric reactions^[1]. In 1991, in back-to-back communications in the Journal of the American Chemical Society, the groups of Evans and Corey reported the synthesis and utility of bisoxazoline ligands^[2], since then, oxazoline-based ligand become the most heavily studied in the literature on the application of asymmetric catalysis, especially in enantioselective aldol reactions^[3], Mannich reactions^[4], Diels–Alder cycloadditions^[5], Michael addition^[6], free radical reactions^[7], and other reactions. So far, there are PHOX, FeOX, BOX, PyBOX and other kinds of chiral oxazoline-based ligands.



[1] *J. Organomet. Chem.*, **1986**, *316*, C1.

[2] (a) *J. Am. Chem. Soc.*, **1991**, *113*, 726. (b) *J. Am. Chem. Soc.*, **1991**, *113*, 728.

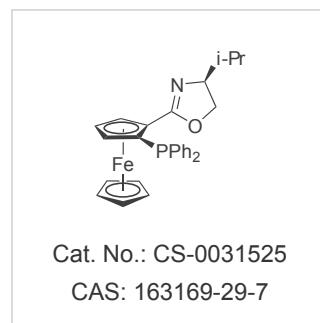
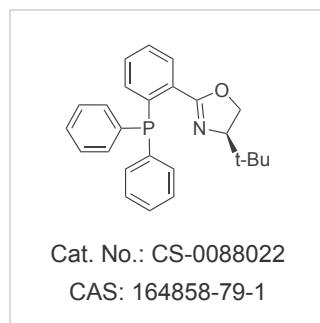
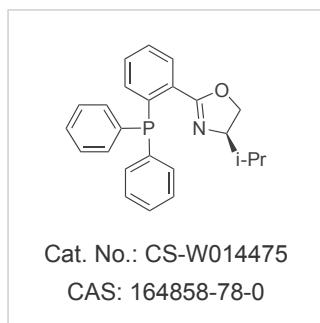
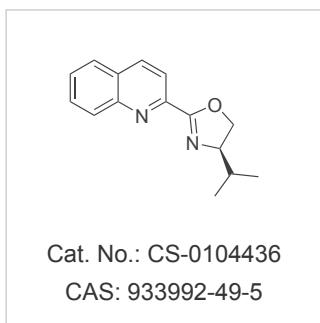
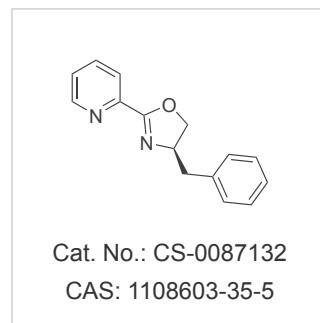
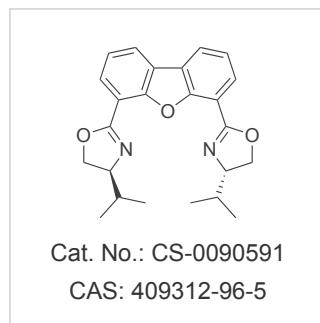
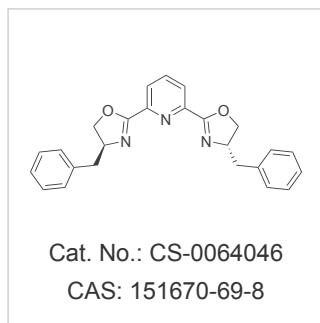
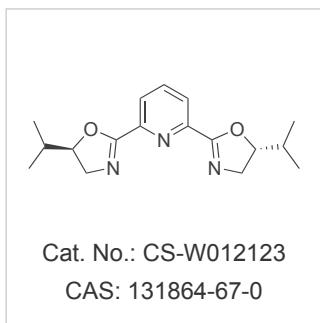
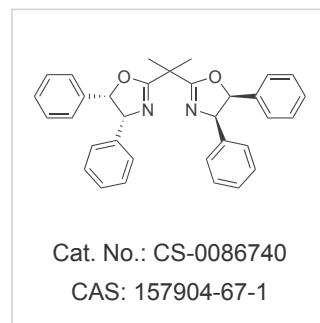
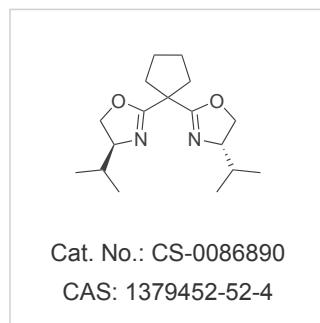
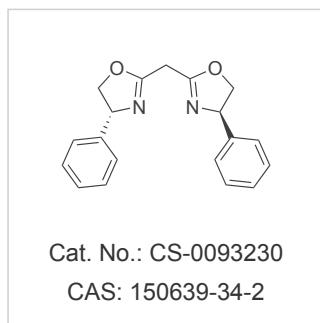
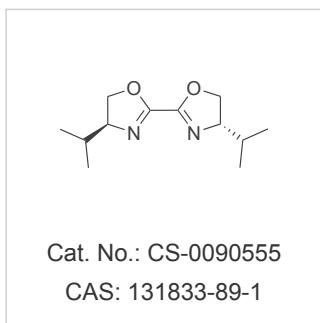
[3] *J. Am. Chem. Soc.*, **2012**, *134*, 15233.

[4] *Angew. Chem. Int. Ed.*, **2001**, *40*, 2995.

[5] *J. Am. Chem. Soc.*, **1991**, *113*, 728.

[6] *Angew. Chem., Int. Ed.*, **2011**, *50*, 6392.

[7] *Nature*, **2019**, *574*, 86.



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