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Catalog # 27-4010 lambda-Tris[(1S,2S)-1,2-diphenyl-1,2-ethanediamine]cobalt(III) chloride tetrakis[3,5-bis(trifluoromethyl)phenyl]borate dihydrate SKJ-1

 $2CI B[C_6H_3(CF_3)_2]_4$

Technical Notes:

- 1. Enantioselective additions of stabilized carbanions to imines generated from α-amido sulfones.
- 2. Chiral hydrogen bond donor catalysts for enantioselective α-aminations of 1,3-dicarbonyl compounds.
- 3. Catalysts for enantioselective organic synthesis.
- 4. Chiral solvating agents for determining ee%.

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$$\begin{array}{c} \text{Nal} \\ (70 \text{ equiv}) \\ \hline & \Lambda \text{-}[\text{Co}((S,S)\text{-dpen})_3]^{3+} 2\text{Cl}^-\text{BAr}_f^- \\ \hline & 27\text{-}4010 \\ \end{array} \\ \begin{array}{c} \text{Nal} \\ (70 \text{ equiv}) \\ \hline & H_2\text{O/toluene} \\ \geq 99\% \\ \end{array} \\ \begin{array}{c} \text{New chiral solvating agent} \\ \text{for ee% of 5 compounds in one mixture} \\ \end{array} \\ \begin{array}{c} \text{Tech Note (4)} \\ \text{Ref. (4)} \\ \end{array}$$

References:

- 1. Synthesis, 2017, 49, 3905-3915.
- 2. Org. Lett., 2016, 18, 760.
- 3. ACS Cent. Sci., 2015, 1, 50.
- 4. Chem. Sci., 2018, 9, 5087-5099.