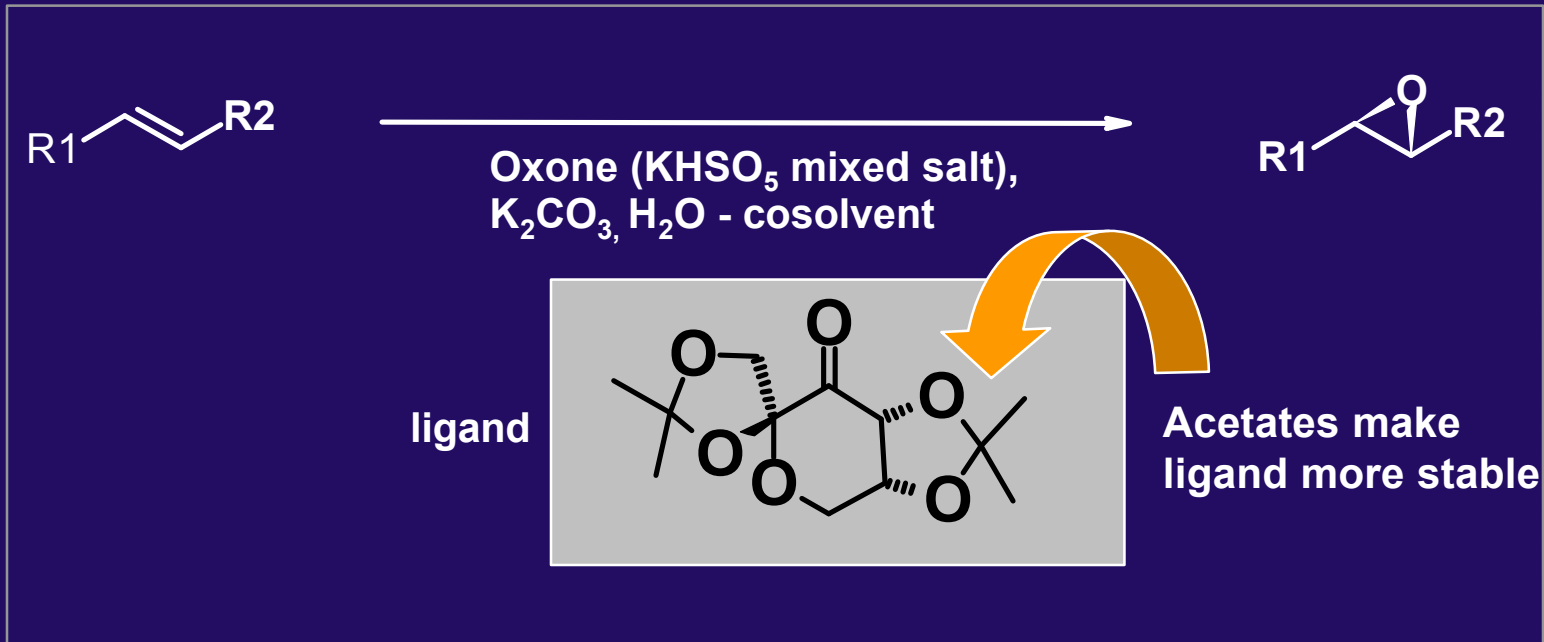


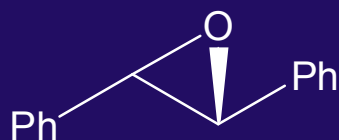
Asymmetric Epoxidation



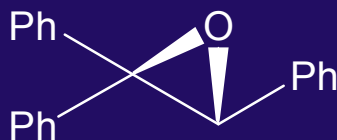
- Technology invented by Prof. Y. Shi
- D-Epoxone™ is 2 steps from D-fructose, L-fructose can be made from L-sorbose
- exclusive for applications in life sciences

Lit.: review article: Y. Shi et al., Synthesis 2000, 14, 1979

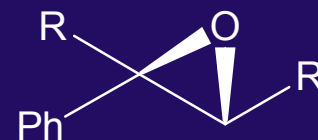
Chiral epoxides



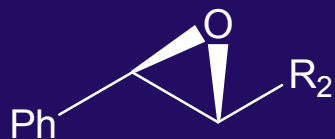
98 % ee



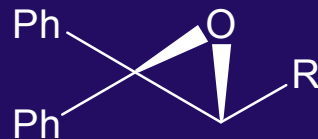
97 % ee



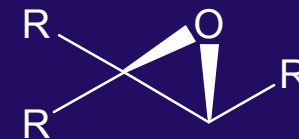
97 % ee



94 - 96 % ee



98 % ee



91 - 97 % ee

Examples of chiral epoxides prepared via DSM technology; these epoxides are valuable building blocks for a variety of bioactive compounds.