

Enantioselective Bromocycloetherification by Lewis Base/Chiral Brønsted Acid Cooperative Catalysis

Matthew T. Burk and Scott E. Denmark.

An enantioselective bromocycloetherification of 5-arylpentenols has been developed using achiral Lewis base/chiral Brønsted acid cooperative catalysis. 2-Substituted tetrahydrofuran products are produced with good enantioselectivity. The constitutional site selectivity is highly dependent on the olefin configuration and the nature of the aromatic substituent.

