



Catalysis

Instead of using traditional Lewis acids, the acetylation of a range of alcohols, phenols, and amines can be accomplished using the recyclable, green catalyst gadolinium triflate immobilized in room temperature ionic liquids.

Alleti, R.; Woon, S. O.; Perambuduru, M.; Afrasiabi, Z.; Ekkehard, Sinn; and Reddy, V. P. Gadolinium triflate immobilized in imidazolium based ionic liquids: a recyclable catalyst and green solvent for acetylation of alcohols and amines. *Green Chemistry*. **2005**, *7*(4), 203-206.

Using an ionic solvent and an iron catalyst for the synthesis of α,α'-bis (substituted benzylidene)cycloalkanones eliminates the need for strong acids and bases.

Zhang, X. Fan, X.; Niu, H.; Wang, J. An ionic liquid as a recyclable medium for the green preparation of α,α'-bis (substituted benzylidene)cycloalkanones catalyzed by FeCl₃·6H₂O. *Green Chemistry*. **2002**, *5*(2), 267-269.

Generic Acids and Bases