

Heterocycles, 55, 855-859 (2001).

Synthesis of Trisubstituted 4-Oxepanones by the Lewis Acid-Promoted Three-Component Ring-Expansion Reaction of Cyclopropapyranones, Silyl Enolates and Glyoxylates

Yoshiaki Sugita(杉田義昭)*, Chikasa Kimura(木村爾沙), and Ichiro Yokoe(横江一朗)

Faculty of Pharmaceutical Sciences, Josai University, Sakado, Saitama 350-0295

In the presence of SnCl_4 , cyclopropapyranones easily reacted with the silyl enolates and ethyl glyoxylate to give the trisubstituted 4-oxepanones in good yields with moderate stereoselectivity. In all the reactions, the *trans-E*-isomer was mainly obtained.

