Stereospecific Ester Activation in Nitrite-Mediated Carbohydrate Epimerization

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General Methods. All commercially available starting materials and solvents were of reagent grade and dried prior to use. Chemical reactions were monitored with thin-layer chromatography using precoated silica gel 60 (0.25 mm thickness) plates. Flash column chromatography was performed on silica gel 60 (0.040-0.063 mm). Optical rotations were measured at the sodium D line at ambient temperature. ^1H and ^{13}C spectra were recorded with a 400 MHz or 500 MHz instrument at 298K in CDCl_3 , using the residual signals from CHCl_3 (^1H : $\delta = 7.25$ ppm; ^{13}C : $\delta = 77.2$ ppm) as internal standard. ^1H peak assignments were made by first order analysis of the spectra, supported by standard ^1H - ^1H correlation spectroscopy (COSY).

¹H NMR of **13**

^{13}C NMR of **13**

^1H - ^1H COSY of **13**