Supplementary Material

The first example of amine-induced reversal of diastereoselectivity in acylation of some trans-2-substituted cyclohexanols

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Compound (±)-trans-1a: $^{13}$C-NMR of (±)-trans-2-(p-tolylsulfanyl)cyclohexanol
Compound (±)-trans-1b: $^1$H-NMR of trans-2-(p-tolyloxy)cyclohexanol
Compound (±)-trans-1b: $^{13}$C-NMR of trans-2-(p-tolyloxy)cyclohexanol
Compound (±)-trans-1c: $^1$H-NMR of trans-2-(dimethylamino)cyclohexanol
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Mixture 3d/4d: $^1$H-NMR of isolated mixture of (±)-trans-2-methylcyclohexyl 2-chloropropanoates produced in presence of pyridine