SUPPORTING INFORMATION FOR**Reductive Cyclizations of Hydroxysulfinylketones: Enantioselective Access to Tetrahydropyran and Tetrahydrofuran Derivatives**

M. Carmen Carreño, Renaud Des Mazery, Antonio Urbano, Françoise Colobert, Guy Solladié

Table of Contents

General Experimental Paragraph.....	S-2
¹ H NMR for compound 14	S-3
¹³ C NMR for compound 14	S-4
¹ H NMR for compound 15	S-5
¹³ C NMR for compound 15	S-6
¹ H NMR for compound 16	S-7
¹³ C NMR for compound 16	S-8
¹ H NMR for compound 17	S-9
¹³ C NMR for compound 17	S-10
¹ H NMR for compound 18	S-11
¹ H NMR for compound 18	S-12
¹ H NMR for compound 21	S-13
¹³ C NMR for compound 21	S-14
¹ H NMR for compound 22	S-15
¹³ C NMR for compound 22	S-16
¹ H NMR for compound 23	S-17
¹³ C NMR for compound 23	S-18
¹ H NMR for compound 25	S-19
¹³ C NMR for compound 25	S-20
¹ H NMR for compound 29	S-21
¹³ C NMR for compound 29	S-22
¹ H NMR for compound 30	S-23
¹³ C NMR for compound 30	S-24
¹ H NMR for compound 31	S-25
¹³ C NMR for compound 31	S-26
¹ H NMR for compound 1	S-27
¹³ C NMR for compound 1	S-28
¹ H NMR for compound 2	S-29
¹³ C NMR for compound 2	S-30

General Experimental Paragraph

Melting points were obtained in open capillary tubes and are uncorrected. ^1H and ^{13}C NMR spectra were recorded in CDCl_3 at 300 and 75 MHz, respectively. All reactions were monitored by thin layer chromatography that was performed on precoated sheets of silica gel 60, and flash column chromatography was done with silica gel 60 (230-400 mesh) of Macherey-Nagel. Eluting solvents are indicated in the text. MeMgBr was used as purchased from Aldrich. The apparatus for inert atmosphere experiments was dried by flaming in a stream of dry argon. CH_2Cl_2 was dried over P_2O_5 . Dry THF was distilled from sodium/benzophenone ketyl. All other reagent quality solvents were used without purification. For routine workup, hydrolysis was carried out with water, extractions with CH_2Cl_2 , and solvent drying with MgSO_4 .