Sodium Chlorite as an Efficient Oxidant and Hydroxy-ion Pump in Osmium-Catalyzed Asymmetric Dihydroxylation

Mikko H. Junttila and Osmo E. O. Hormi^{*}

[*] Department of Chemistry
University of Oulu
P.O.Box 3000
FIN-90014 University of Oulu (Finland)
Fax: (+358) 08 553 1603
E-mail: osmo.hormi@oulu.fi

Table of Contents:

Kinetics of different dihydroxylations of styrene.....	S3
¹ H NMR of 1-phenylethane-1,2-diol and bis(Mosher's)ester of diol.....	S4
¹ H NMR of 1,2-diphenylethane-1,2-diol and bis(Mosher's)ester of diol.....	S5
¹ H NMR of 2-phenylpropane-1,2-diol and (Mosher's)ester of diol.....	S6
¹ H NMR of hexane-1,2-diol and bis(Mosher's)ester of diol.....	S7
¹ H NMR of indane-1,2-diol and bis(Mosher's)ester of diol.....	S8
¹ H NMR of 1-methyl cyclohexane-1,2-diol and (Mosher's)ester of diol.....	S9
¹ H NMR of hexadecan-1,2-diol and bis(Mosher's)ester of diol.....	S10
¹ H NMR of methyl 2,3-dihydroxy-3-phenylpropanoate and bis(Mosher's)ester of diol.....	S11

Figure S-1. Kinetics of different dihydroxylations of styrene.

1-phenylethane-1,2-diol: HRMS (M+Na) 161.0570, calculated 161.0578

1,2-diphenylethane-1,2-diol: HRMS (M+Na) 237.0869, calculated 237.0891 (C₁₄H₁₄O₂Na)

2-phenylpropane-1,2-diol: HRMS ($M+Na$) 175.0728, calculated 175.0735 ($C_9H_{12}O_2Na$)

Hexane-1,2-diol: HRMS (M+Na) 141.0903, calculated 141.0891 (C₆H₁₄O₂Na)

Indane-1,2-diol: HRMS (M+Na) 173.0597, calculated 173.0578 (C₉H₁₀O₂Na)

1-methyl cyclohexane-1,2-diol: HRMS (M+Na) 153.0918, calculated 153.0891 (C₇H₁₄O₂Na)

Hexadecan-1,2-diol: HRMS (M+Na) 281.2463, calculated 281.2457 (C₁₆H₃₄O₂Na)

Methyl 2,3-dihydroxy-3-phenylpropanoate: HRMS (M+Na) 219.0628, calculated 219.0633 (C₁₀H₁₂O₄Na)