SUPPORTING INFORMATION FOR:

The Synthesis of Polyfunctionalized, Cyclohexene-based Chirons from Tartaric Acid

Joshua N. Buckler, Brett D. Schwartz and Martin G. Banwell*

Research School of Chemistry, Institute of Advanced Studies, The Australian National University, Canberra, ACT 2601, Australia

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<td>The $^1$H and $^{13}$C NMR spectra of compounds 4–13 and ent-1</td>
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400 MHz $^1$H NMR Spectrum of Compound 4
[recorded in CDCl$_3$]
100 MHz $^{13}$C NMR Spectrum of Compound 4
[recorded in CDCl$_3$]
400 MHz $^1$H NMR Spectrum of Compound 5
[recorded in CDCl$_3$]

$^*$ = ethyl acetate

CHCl$_3$

CH$_2$Cl$_2$

H$_2$O
100 MHz $^{13}$C NMR Spectrum of Compound 5
[recorded in CDCl$_3$]
400 MHz $^1$H NMR Spectrum of Compound 6
[recorded in CDCl$_3$]
100 MHz $^{13}$C NMR Spectrum of Compound 6
[recorded in CDCl$_3$]
400 MHz $^1$H NMR Spectrum of Compound 7
[recorded in CDCl$_3$]
100 MHz $^{13}$C NMR Spectrum of Compound 7
[recorded in CDCl$_3$]
400 MHz $^1$H NMR Spectrum of Compound 8
[recorded in CDCl$_3$]

$^{1}$H NMR Spectrum of Compound 8
[recorded in CDCl$_3$]
100 MHz $^{13}$C NMR Spectrum of Compound 8
[recorded in CDCl$_3$]
400 MHz $^1$H NMR Spectrum of Compound 9
[recorded in CDCl$_3$]

$\text{MeO} \quad \text{O} \quad \text{O} \quad \text{MeO}$

$\text{HO Br}$

CHCl$_3$

$\text{CH}_2\text{Cl}_2$

H$_2$O
100 MHz $^{13}$C NMR Spectrum of Compound 9
[recorded in CDCl$_3$]
400 MHz $^1$H NMR Spectrum of Compound 10
[recorded in CDCl$_3$]
100 MHz $^{13}$C NMR Spectrum of Compound 10
[recorded in CDCl$_3$]
400 MHz $^1$H NMR Spectrum of Compound 11
[recorded in CDCl$_3$]
$100 \text{ MHz } ^{13}\text{C NMR Spectrum of Compound 11}$

[recorded in CDCl$_3$]
400 MHz $^1$H NMR Spectrum of Compound 12
[recorded in CDCl$_3$]

S18
100 MHz $^{13}$C NMR Spectrum of Compound 12
[recorded in CDCl$_3$]
400 MHz $^1$H NMR Spectrum of Compound 13
[recorded in CDCl$_3$]
100 MHz $^{13}\text{C}$ NMR Spectrum of Compound 13
[recorded in CDCl$_3$]
400 MHz $^1$H NMR Spectrum of Compound *ent-1* [recorded in CD$_3$OD]
100 MHz $^{13}$C NMR Spectrum of Compound *ent-1* [recorded in CD$_3$OD]