10.1071/CH14574\_AC © CSIRO 2015 Australian Journal of Chemistry 2015, 68(4), 593-599

## **Supplementary Material**

## The Conversion of Levoglucosenone into Isolevoglucosenone

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**Figure S1**: Structure of compound **5** (CCDC 1023960) with labelling of selected atoms, showing one location of the disordered atoms (O10: occupancy 0.5). Anisotropic displacement ellipsoids show 30% probability levels. Hydrogen atoms are drawn as circles with small radii.



**Figure S2**: Structure of compound **5** (CCDC 1023960) with labelling of selected atoms, showing the alternative location of the disordered atoms (O101: occupancy 0.5). Anisotropic displacement ellipsoids show 30% probability levels. Hydrogen atoms are drawn as circles with small radii.



**Figure S3**: Structure of compound **9** (CCDC 1023961) with labelling of selected atoms. Anisotropic displacement ellipsoids show 30% probability levels. Hydrogen atoms are drawn as circles with small radii.



**Figure S4**: Structure of compound **10** (CCDC 1023962) with labelling of selected atoms. Anisotropic displacement ellipsoids show 30% probability levels. Hydrogen atoms are drawn as circles with small radii.



**Figure S5**: Structure of compound **14** (CCDC 1023963) with labelling of selected atoms. Anisotropic displacement ellipsoids show 30% probability levels. Hydrogen atoms are drawn as circles with small radii.





500 MHz <sup>1</sup>H NMR Spectrum of Compound 6 (Recorded in CDCl<sub>3</sub>)

75 MHz <sup>13</sup>C NMR Spectrum of Compound 6 (Recorded in CDCl<sub>3</sub>)













125 MHz <sup>13</sup>C NMR Spectrum of Compound **10** (Recorded in CDCl<sub>3</sub>)





125 MHz <sup>13</sup>C NMR Spectrum of Compound **11** (Recorded in CDCl<sub>3</sub>)











125 MHz <sup>13</sup>C NMR Spectrum of Compound **13** [Recorded in (CD<sub>3</sub>)<sub>2</sub>CO]





125 MHz  $^{13}\text{C}$  NMR Spectrum of Compound 14 [Recorded in (CD\_3)\_2CO]





125 MHz  $^{13}\text{C}$  NMR Spectrum of Compound 4 (Recorded in CDCl\_3)





125 MHz  $^{13}\text{C}$  NMR Spectrum of Compound 15 [Recorded in (CD\_3)\_2CO]





125 MHz <sup>13</sup>C NMR Spectrum of Compound 16 [Recorded in (CD<sub>3</sub>)<sub>2</sub>CO]



500 MHz <sup>1</sup>H NMR Spectrum of Compound 2 (Recorded in CDCl<sub>3</sub>)



125 MHz  $^{13}\text{C}$  NMR Spectrum of Compound 2 (Recorded in CDCl\_3)

