

## Supplementary Material

### Asymmetric transfer hydrogenation of prochiral cyclic 1,3-diketones

Jan Kreuziger, Anne Jäger and Peter Metz\*

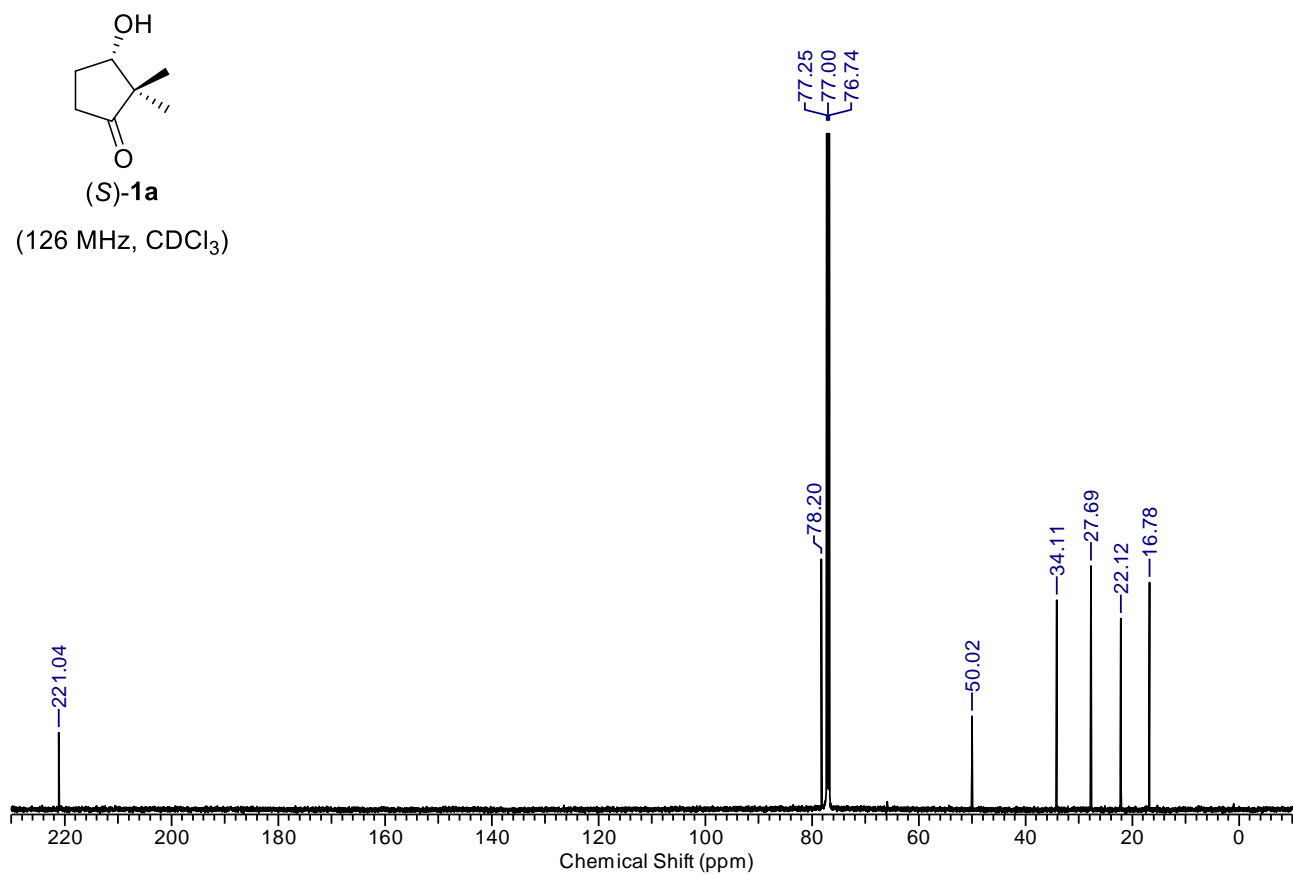
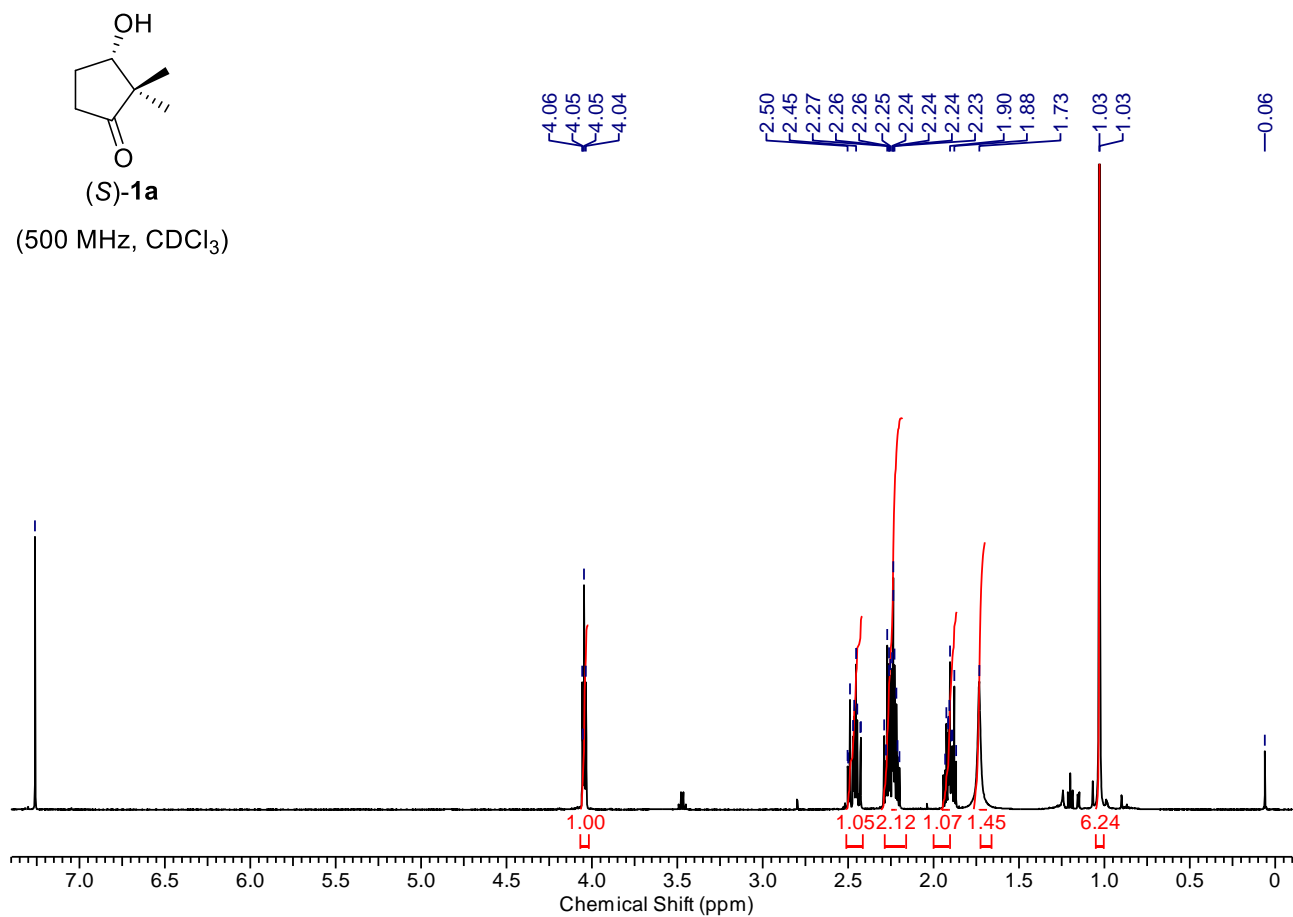
*Fakultät Chemie und Lebensmittelchemie, Organische Chemie I,  
Technische Universität Dresden, Bergstraße 66, 01069 Dresden, Germany*

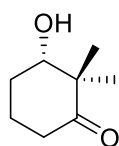
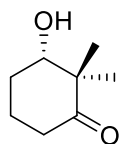
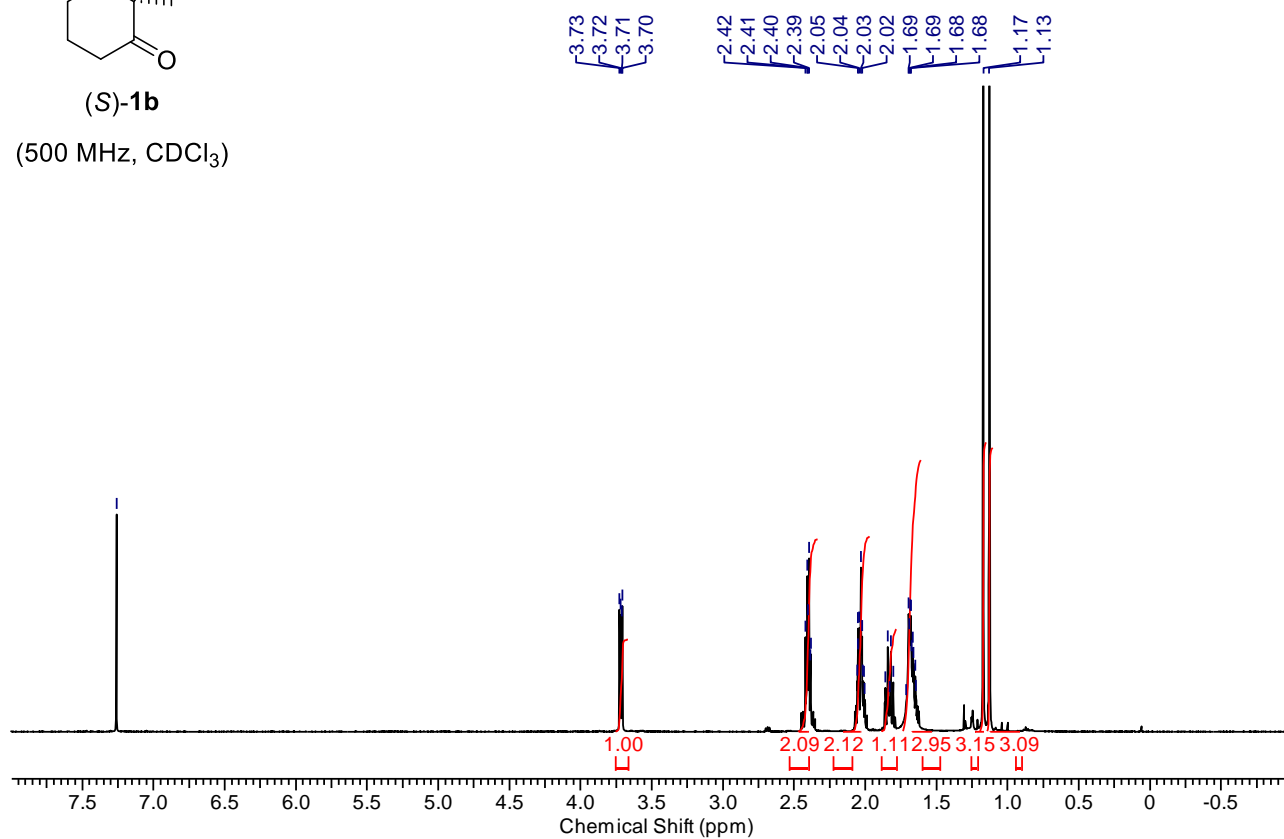
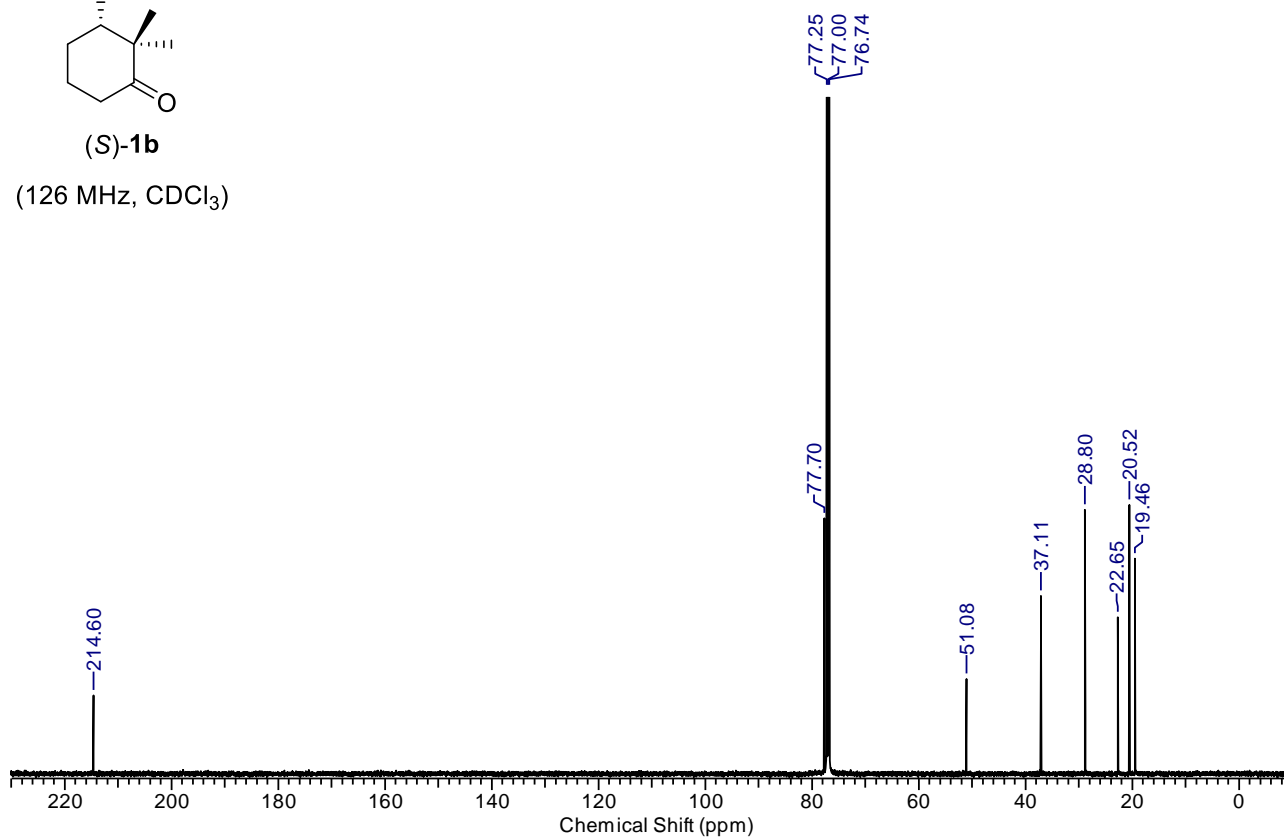
*Email: [peter.metz@chemie.tu-dresden.de](mailto:peter.metz@chemie.tu-dresden.de)*

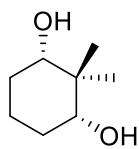
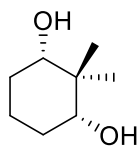
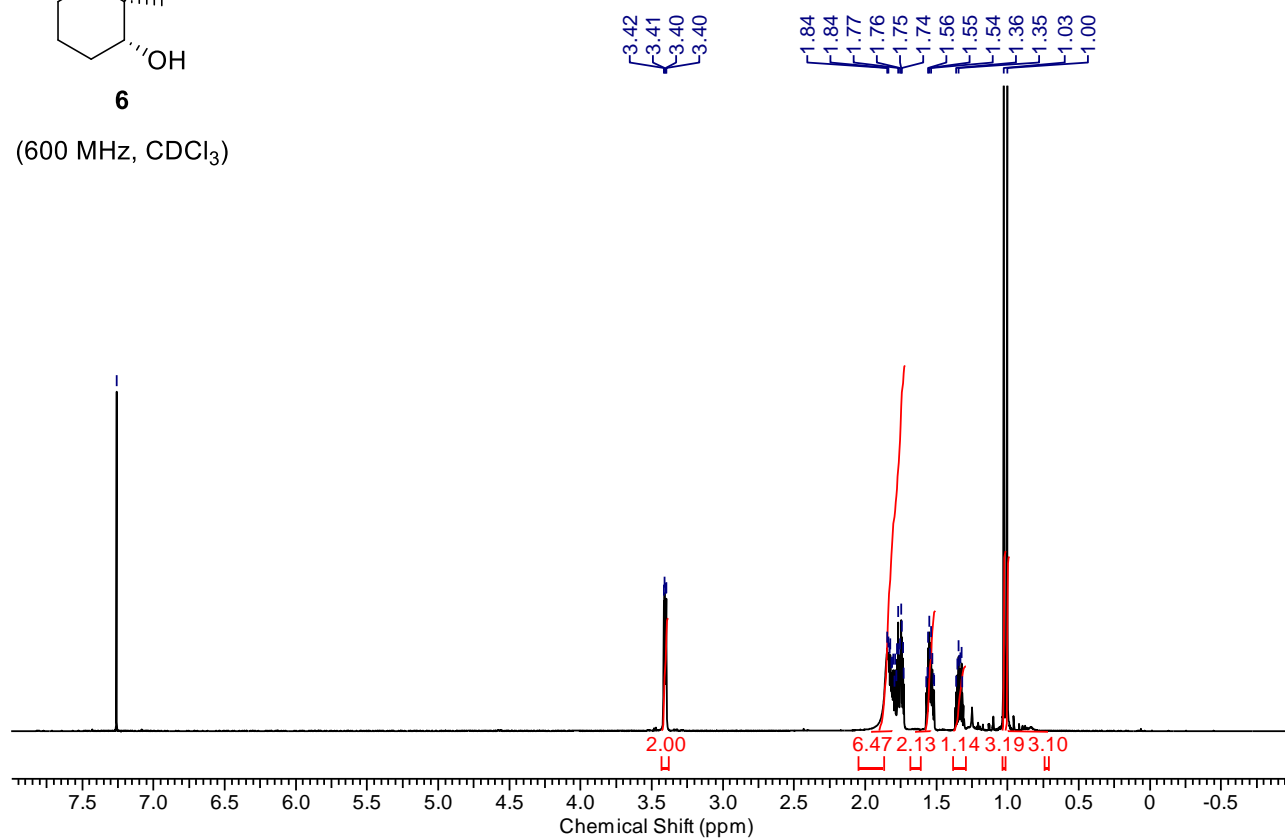
#### Table of Contents

*Copies of <sup>1</sup>H NMR and <sup>13</sup>C NMR spectra*

|   |    |
|---|----|
| (S)-3-Hydroxy-2,2-dimethylcyclopentanone ((S)- <b>1a</b> )          | S2 |
| (S)-3-Hydroxy-2,2-dimethylcyclohexanone ((S)- <b>1b</b> )           | S3 |
| <i>cis</i> -2,2-Dimethylcyclohexane-1,3-diol ( <b>6</b> )           | S4 |
| (S)-2,2-Dimethyl-3-oxocyclopentyl 4-bromobenzoate ((S)- <b>7a</b> ) | S5 |
| (S)-2,2-Dimethyl-3-oxocyclohexyl 4-bromobenzoate ((S)- <b>7b</b> )  | S6 |



**(S)-1b**(500 MHz, CDCl<sub>3</sub>)**(S)-1b**(126 MHz, CDCl<sub>3</sub>)

**6**(600 MHz, CDCl<sub>3</sub>)**6**(151 MHz, CDCl<sub>3</sub>)