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**March 2024**

**Ubira eData record**: 'Research data supporting the publication "Facial Selectivity in Mechanical Bond Formation: Axially Chiral Enantiomers and Geometric Isomers from a Simple Prochiral Macrocycle"

**ReadMe** **Author**: Professor Steve Goldup, University of Birmingham

The dataset contains 35 zipped folders containing characterisation data (NMR, MS) for compounds 1b, 1c, 1d, 1e, 1f, 4a, 4b, 4c, 4d, 4e 6, 7, 8, 9, 10,11,12, 14, 15 and 16 reported in the manuscript and compounds S3, S4, S5, S6, S8, S10, S11, S14, S15, S17, S19, S22, S23 and S24 reported in the electronic supporting information.

Geographic location of data collection: University of Birmingham, UK

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Publisher: University of Birmingham, U.K.

**Related publication:**

Peter R. Gallagher, Andrea Savoini, Abed, Saady, John R. J. Maynard,Patrick W. V. Butler, Graham J. Tizzard, and Stephen M. Goldup, J. Am. Chem. Soc. **2024**, DOI: 10.1021/jacs.3c14329

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