ReadMe file for the dataset for the article

The Electrochemical Characterisation of Functionalised Isoindolinones

Daniel. E. Smith[a], Ashley J. Basson[a], Niamh J. Owen[a], Mark Potter[a], Mark G. McLaughlin[b], Kathryn E. Toghill[a]\*

The zip folder entitled dataset contains each figure, the software file used to produce the figure (e.g. Excel, Origin, ChemDraw), and the original data files where relevant.

Figure 1. Redox Organic Molecule Structures. Labelled a-f.

Chemdraw file and TIF of structures compiled.

Figure 2 – Overaly of voltammetry of ROMs a-f

Contains the final TIF files of Figure 2A and 2B, and the Origin file to produce them with all raw data extracted from the potentiostat software.

Sub-files 2A Data and 2B Data contain the IDS files for Ivium potentistat software.

Figure 3 – Scan rate data and peak current plot

Contains data for figures 3A-D in Origin files and the raw data in sub folders.

Figure 4 – Molecule a and aR after chemical reduction

Contains the raw data files and the origin file used to produce the figure.

Figure 5 – Molecule a cycled in acetonitrile 100 times.

Contains the Origin file and the raw data within A-MeCN(TBAP).

Also contains blank CV data in DMF teaBF4, MeCN TBAP and MeCN teaBF4

Figure 6 – Molecule a in various solvents and salt combinations with 100 cycles in DMF

Origin files for Figure 6A and Figure 6B in separate named folders and raw data within those subfolders.

Figure 7 – Full cell voltammogram of ferrocene and ROMa in DMF and flow cell cycling data

Folder Figure 7A contains the Origin file, Excel of raw data and the Ivium Data Set (ids) raw data files. Folder Figure 7B contains the Origin file for the final figure, the charge and discharge cycles in Excel.

Figure S1 – NMR data for the molecules a-f including aR.

Provided as a Word document as they correspond to a previous publication data set.

Figure S2 – ROM c cycling in acetonitrile 100 times.

The file contains raw data ids file pertaining to O3f which was the original designation for molecule c. The Origin file contains the raw data for the 100 cycles.

Figure S3 – ROM a battery cycling in acetonitrile with teaBF4.

Contains the Origin files and raw cycling data for charge and discharge in Excel.