

PEEK-WC-based Mixed Matrix Membranes Containing Polyimine Cages for Gas Separation

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1. Characterization of the Cages

1.1 ^1H -NMR spectra

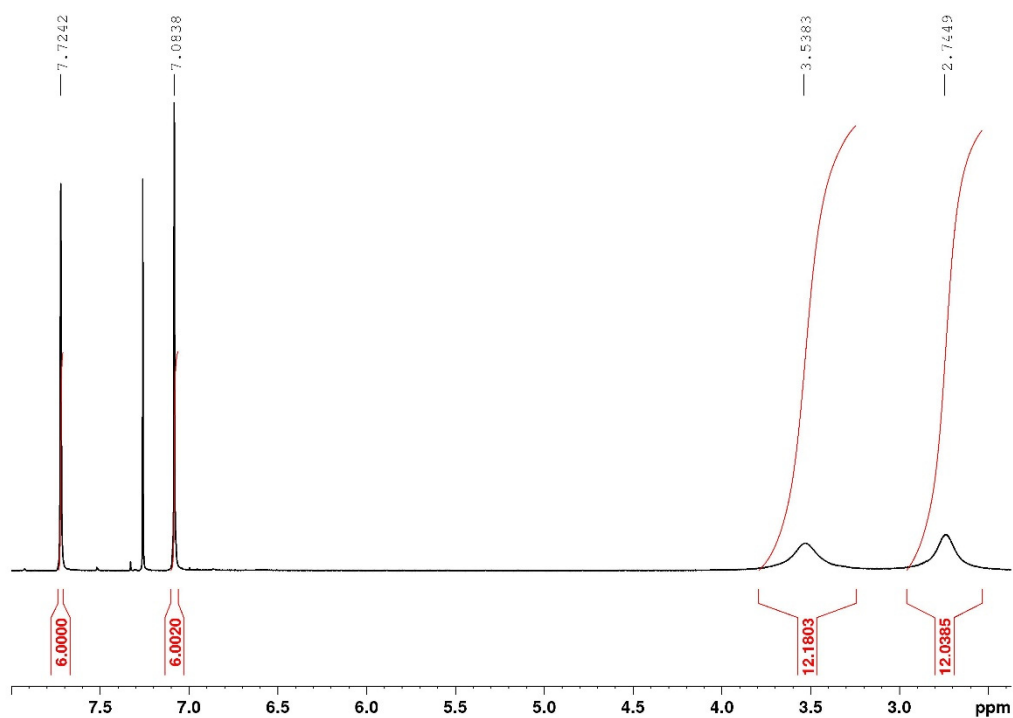


Figure S1. ^1H -NMR spectrum of Fura in CDCl_3 .

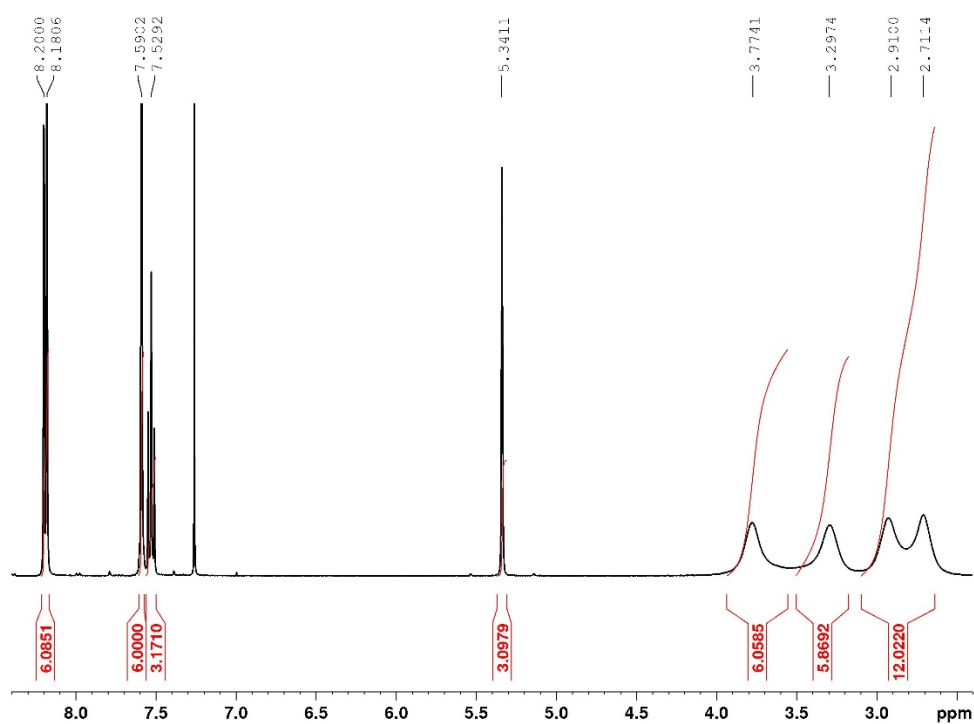


Figure S2. ^1H -NMR spectrum of m-xy in CDCl_3 .

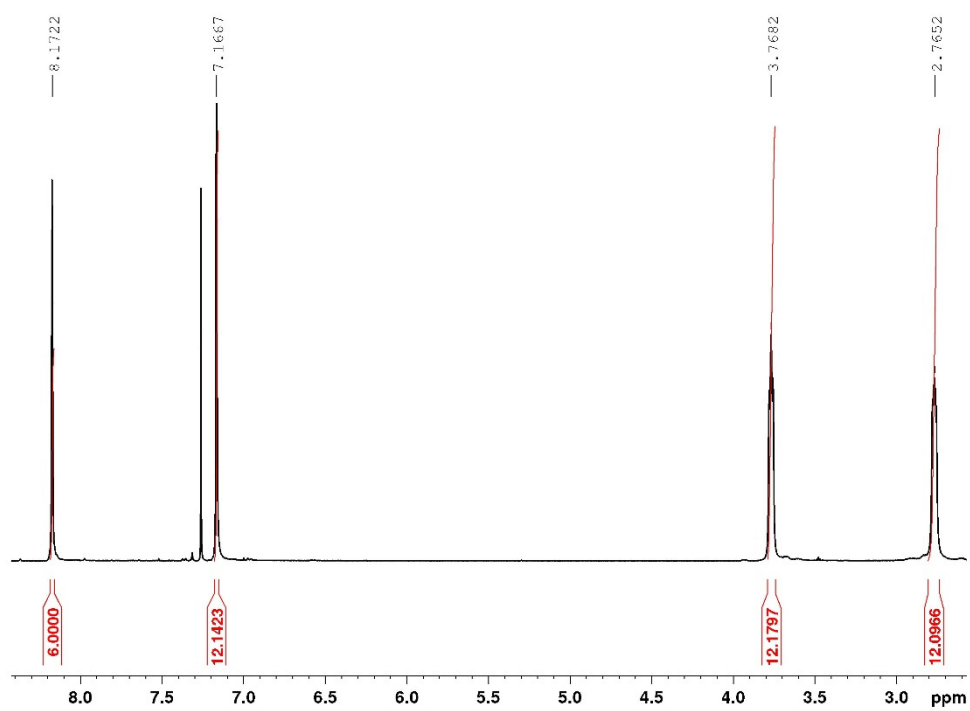


Figure S3. ^1H -NMR spectrum of p-xy in CDCl_3 .

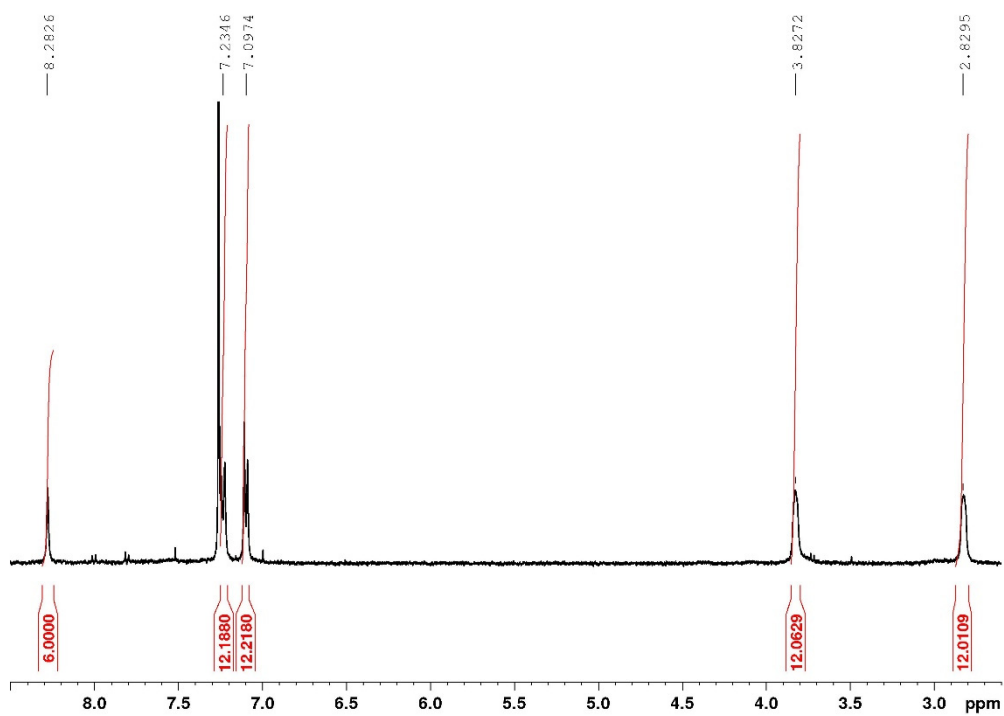


Figure S4. ^1H -NMR spectrum of the diphenyl cage in CDCl_3 .

1.2 FTIR-ATR spectra

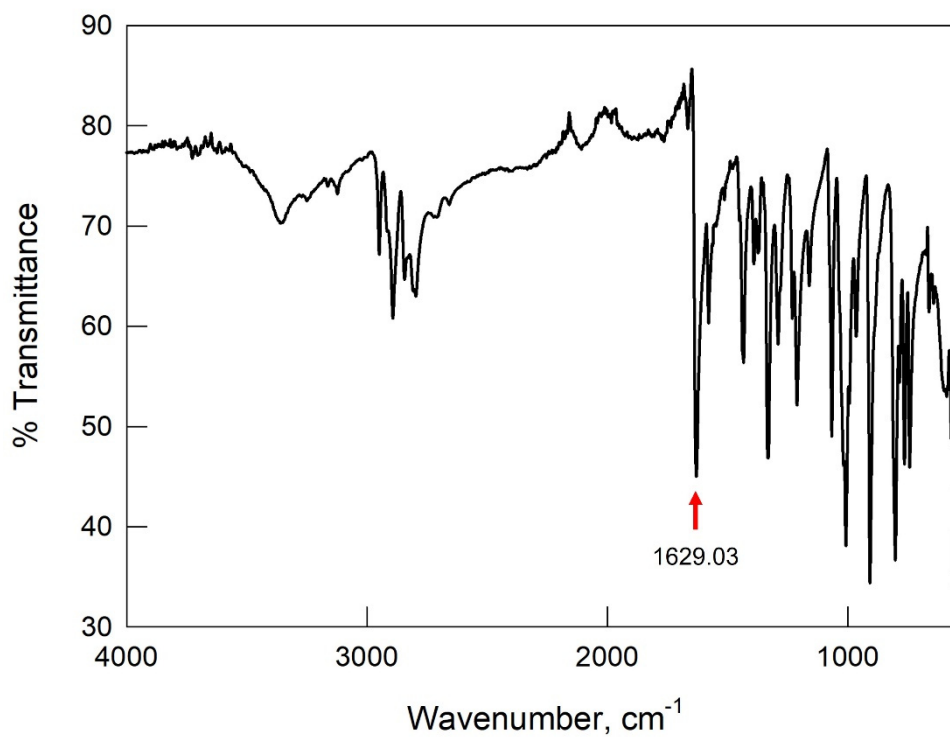


Figure S5. FTIR-ATR spectrum of Fura.

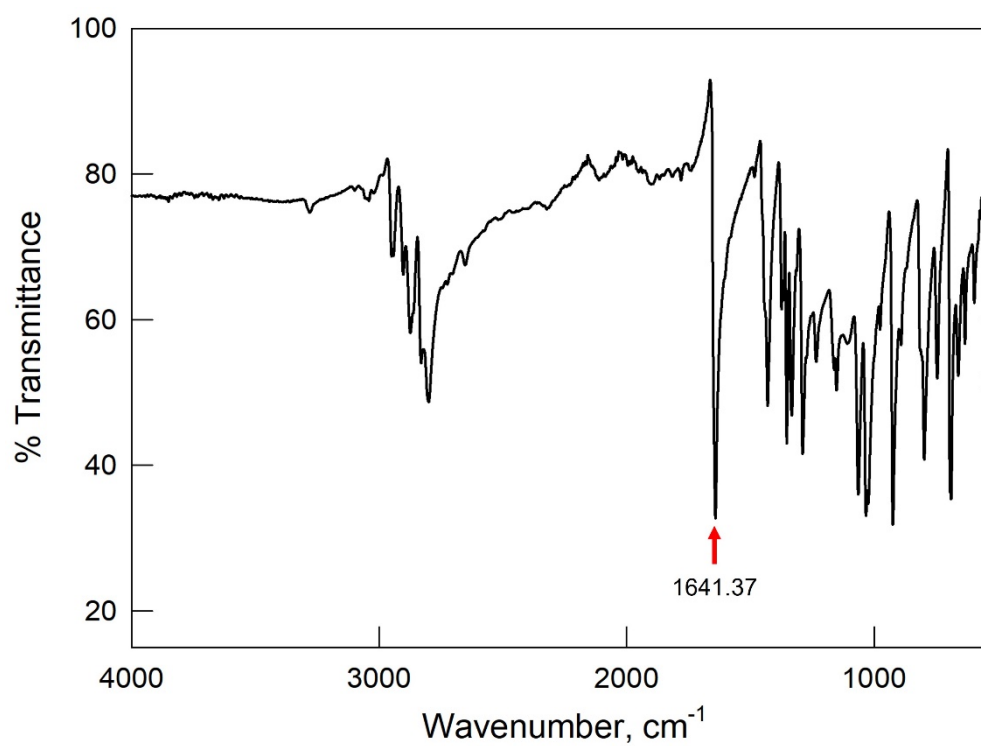


Figure S6 FTIR-ATR spectrum of m-xy.

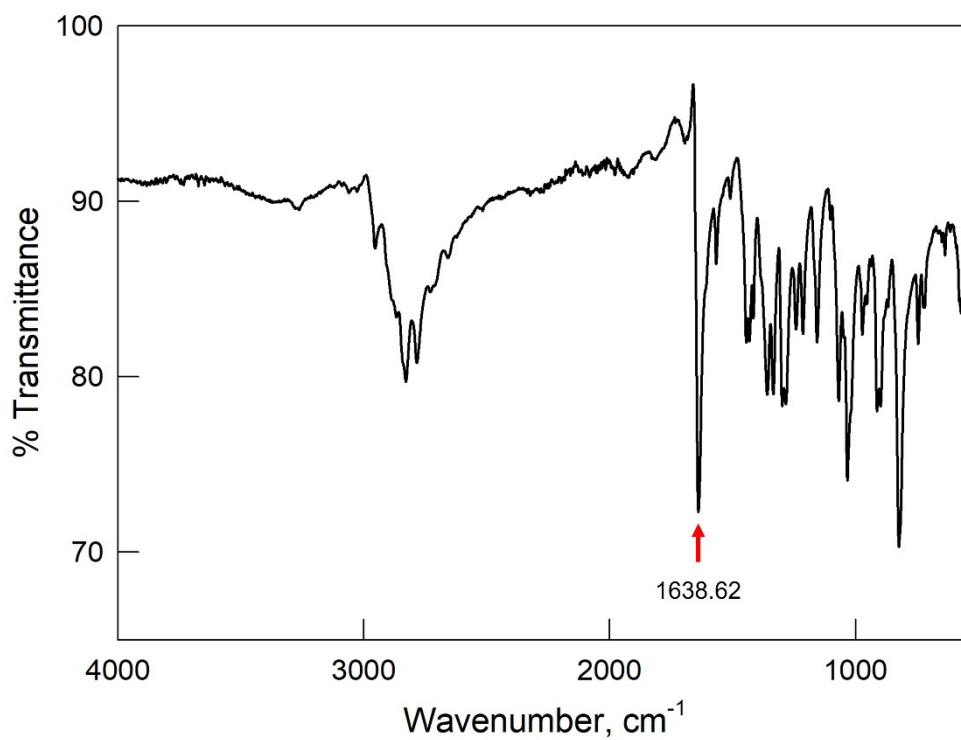


Figure S7 FTIR-ATR spectrum of p-xy

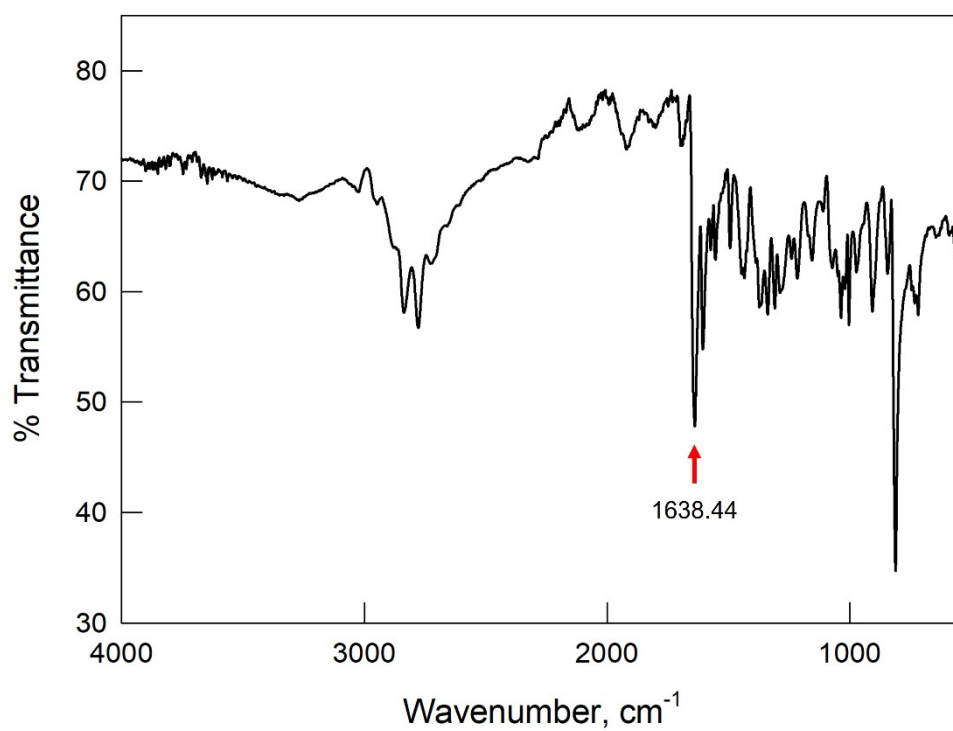


Figure S8 FTIR-ATR spectrum of the diphenyl cage.

2. Differential scanning calorimetric (DSC) measurements

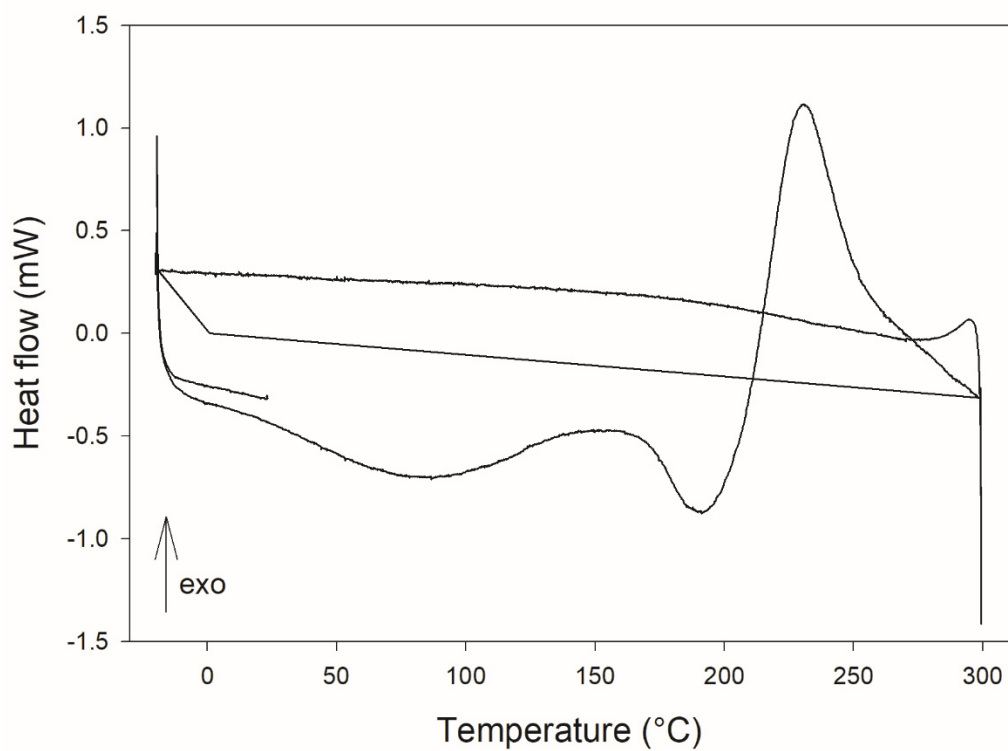


Figure S9 DSC curve of Fura.

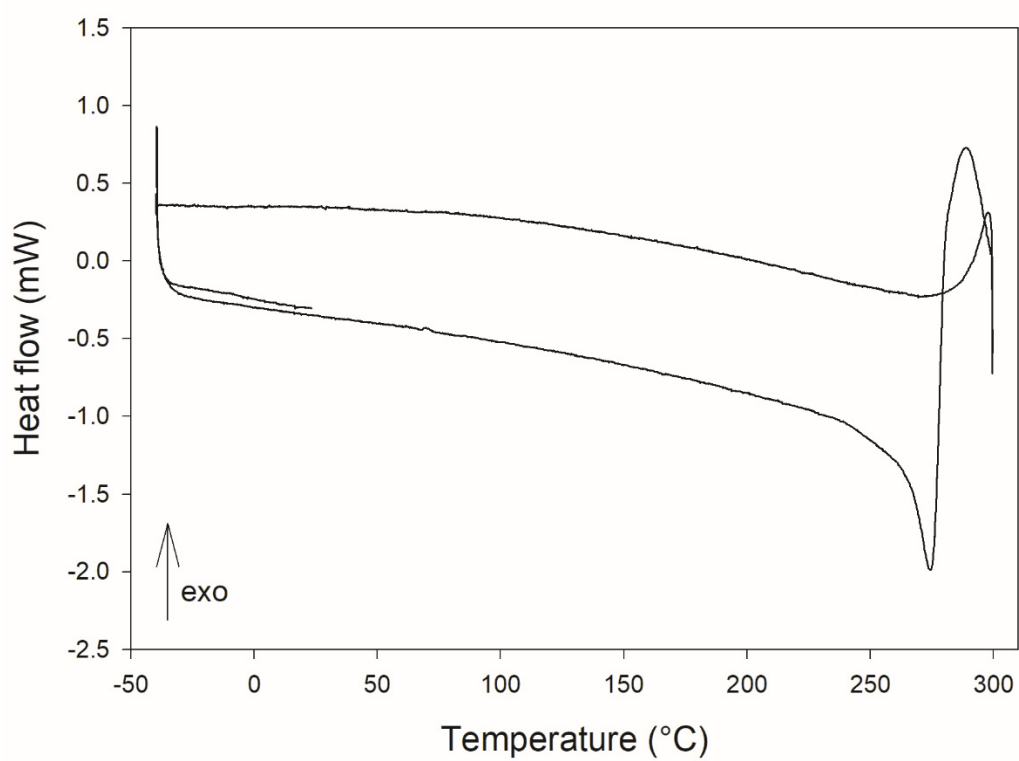


Figure S10 DSC curve of m-xy

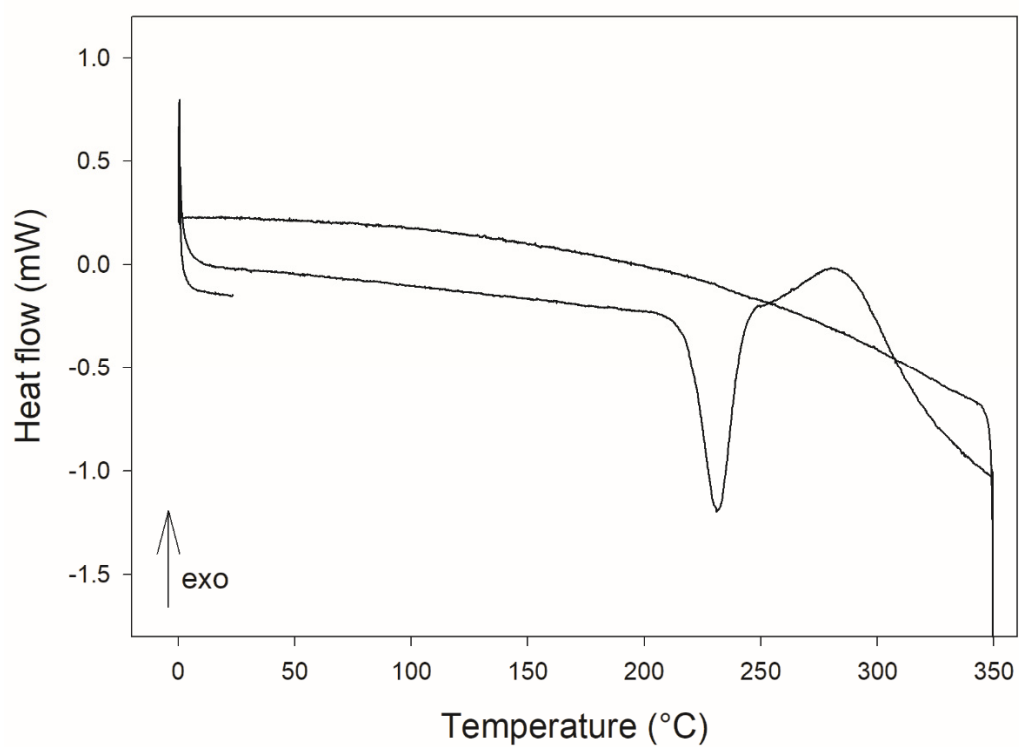


Figure S11 DSC curve of p-xy.

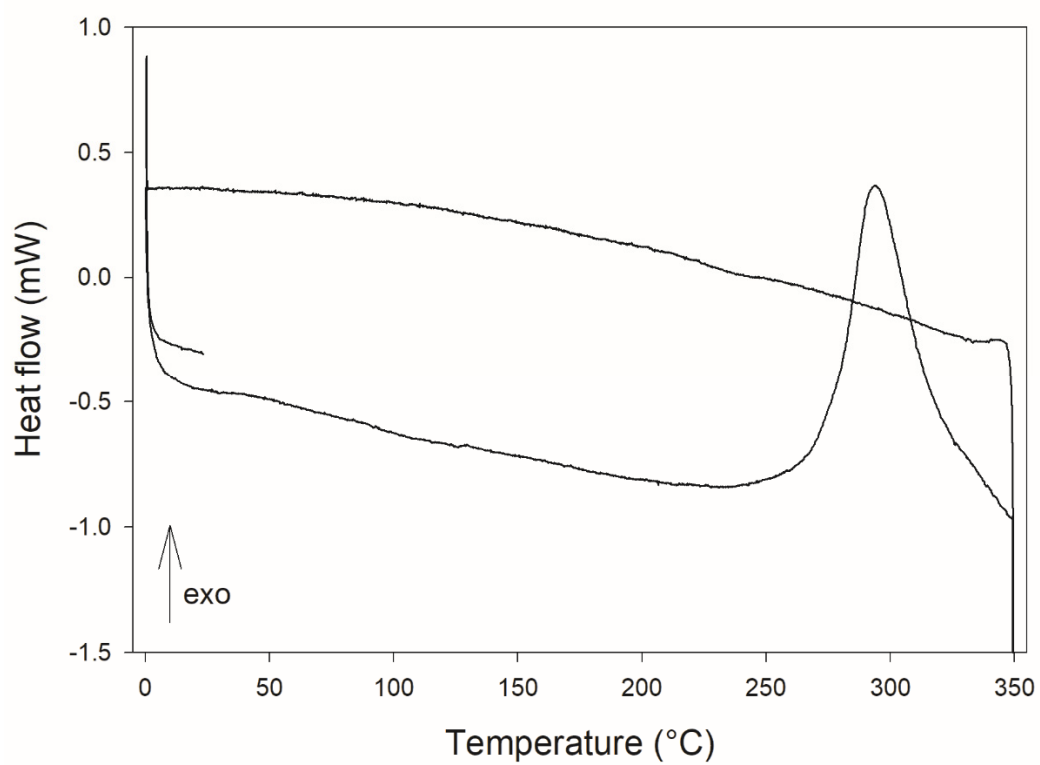


Figure S12 DSC curve of the diphenyl cage.