Supporting Information

Preparation of polycarbonate diols (PCDLs) from dimethyl carbonate (DMC) and diols catalyzed by KNO₃/gamma-Al₂O₃

Menglu Song, a,b Xiangui Yang *a and Gongying Wang a

^aChengdu Institute of Organic Chemistry, Chinese Academy of Sciences, Chengdu 610041, Sichuan, China
^b National Engineering Laboratory & Technology, University of Chinese Academy of Sciences, Beijing
101408, China

1 Experimental

Different Scanning Calorimetry (DSC) tests were carried out on a TA Instrument DSC-Q20 thermal analyzer under nitrogen atmosphere. The samples were loaded in aluminum pans, heated to 120 °C and kept for 5min to remove thermal history, then were cooled to -80°C at a rate of 10°C min⁻¹, and finally were reheated to 120°C at the same rate. From the second heating run, the glass transition temperature (T_g) and melting temperature(T_m)of the copolymers of polycarbonate diols was obtained.

2 Results



Fig S1 DSC traces of synthesized polycarbonate diols