

Supporting information

Synthesis and Crystal Structures of Cadmium(II) Cyanide with *branched-butoxyethanol*

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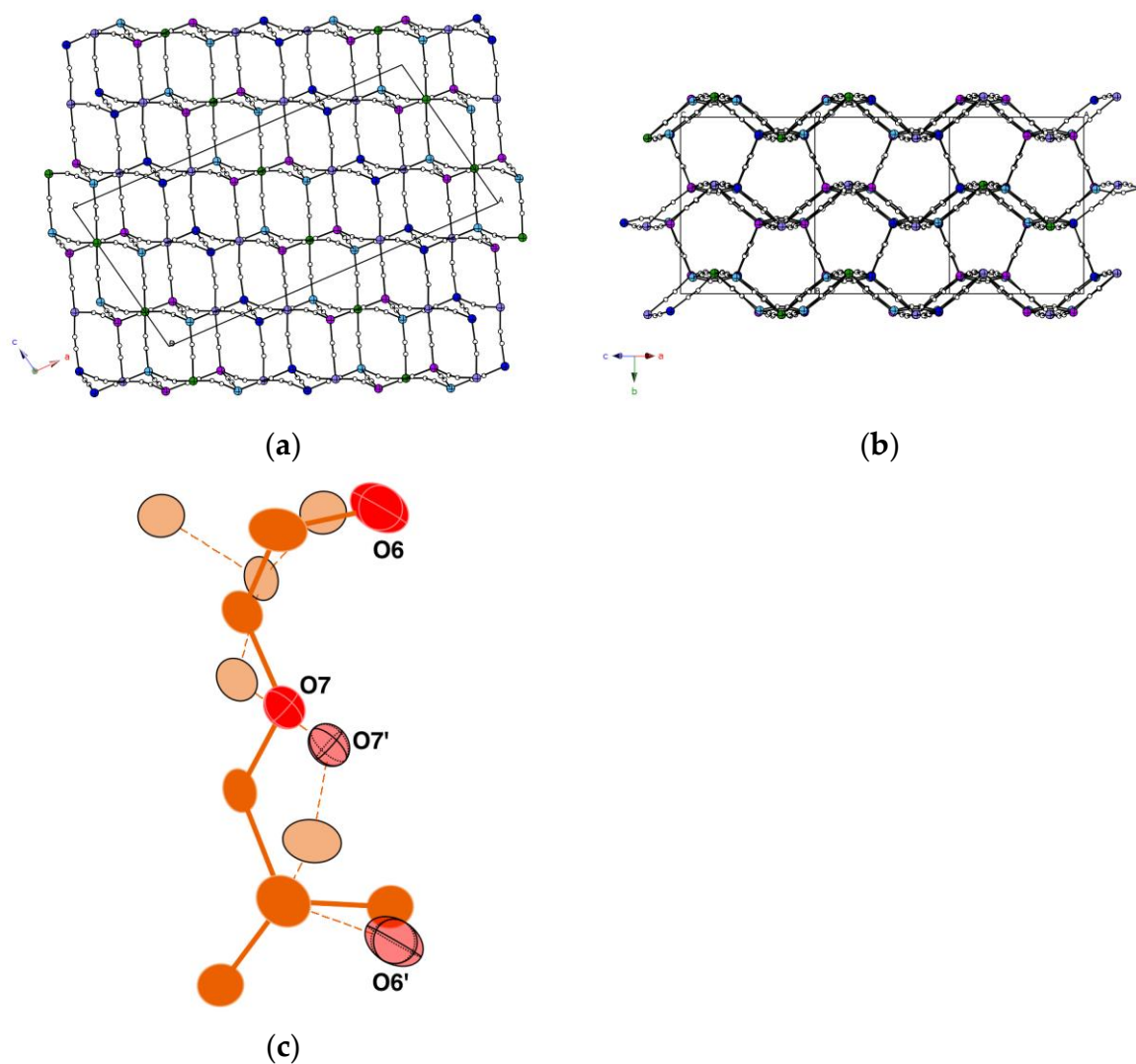


Figure S1 $\text{Cd}(\text{CN})_2$ network structure of **I**; (a) along the b axis, (b) along the (102) direction, and (c) iBucel guest molecule in $\text{Cd}(\text{CN})_2$ framework of **I**.

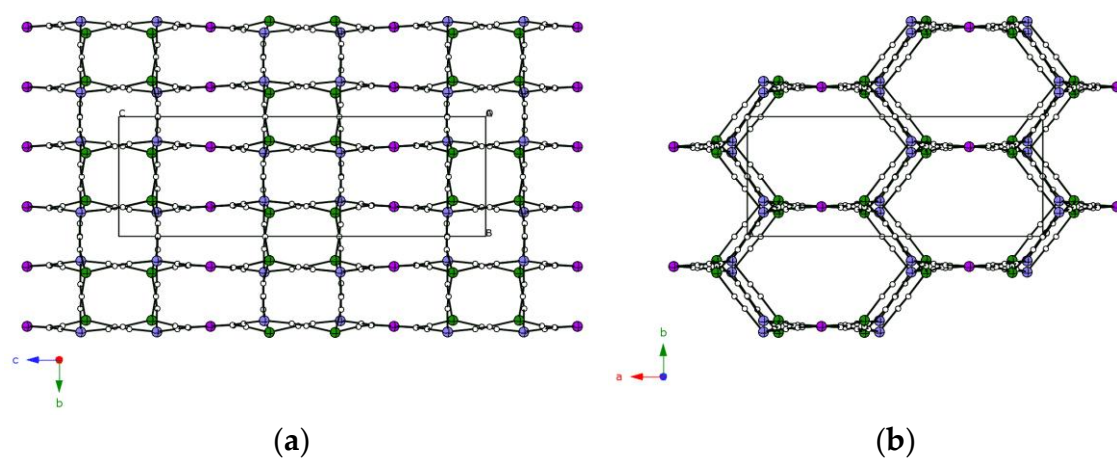


Figure S2 $\text{Cd}(\text{CN})_2$ network structure of **II**; (a) along the a axis and (b) along the c axis.

Experiment for TGA measurement

All TGA measurements were performed by a SII EXSTAR TG/DTA 6200 (SII, Chiba, Japan). The samples were put in aluminum pan and the TGA data were measured from RT to 500 °C under nitrogen atmosphere and heating rate of 4 °C min⁻¹.

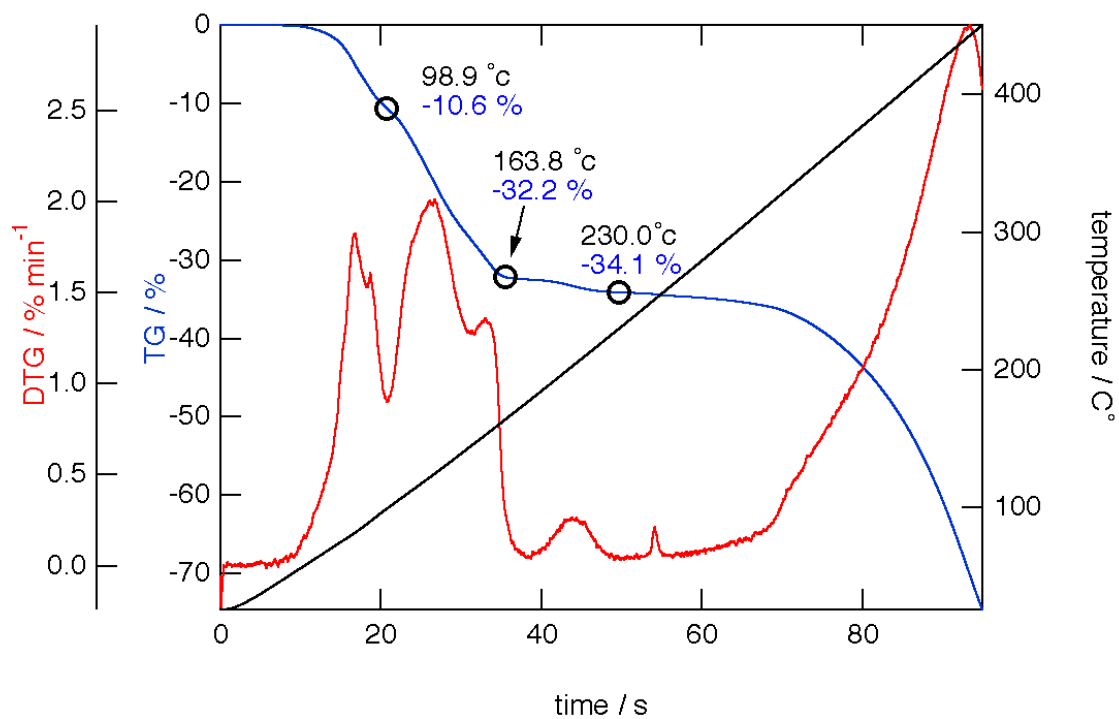


Figure S3 TG and DTG plot of I. Calculated for the percentage by mass of all iBucel molecules and water molecules per I: 31.87 % and 1.62 %, respectively.

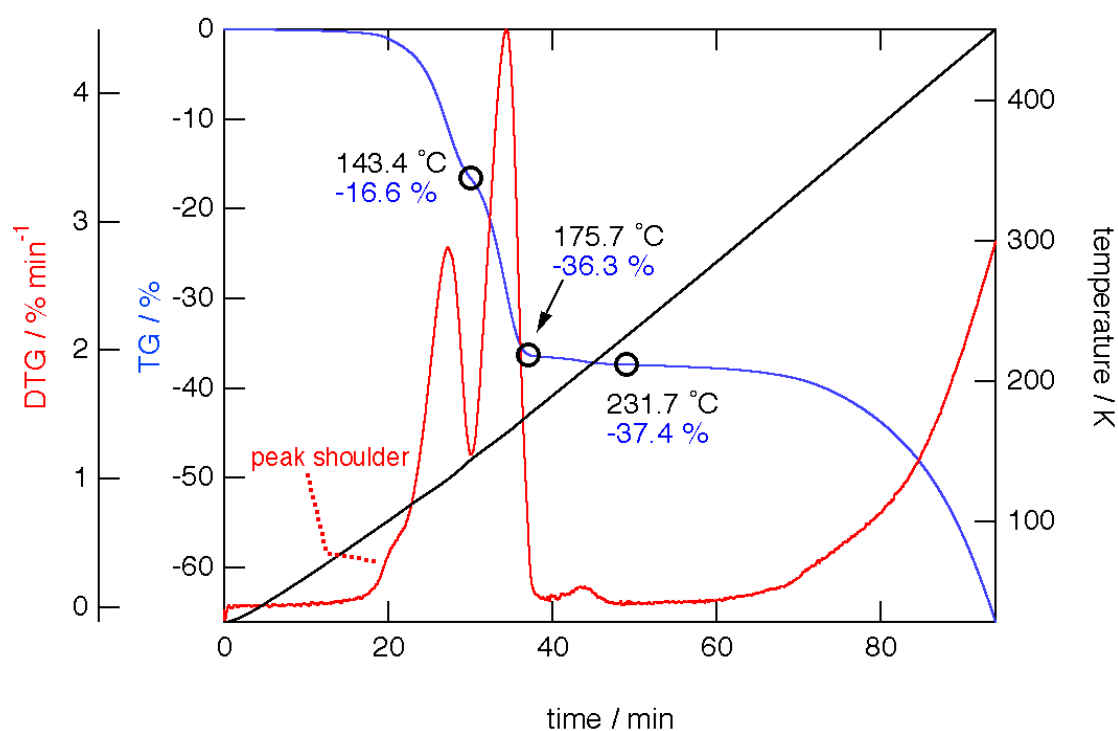


Figure S4 TG and DTG plot of **II**. Calculated for the percentage by mass of 4 tBucel molecules and 1.06 water molecules per **II**: 35.97 % and 1.45 %, respectively.



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