Figure A1. Infrared absorption spectra of the eight compounds. Asterisks denote the solvent vibrational bands. Inset in (c) is the Raman spectrum showing the symmetric stretching mode of I₂.
Figure A2. DTA runs for 1-parent and 2-empty in N$_2$. 
Figure A3. The structure of 2\textsubscript{empty}, (a) the Zn-centred ZnZn\textsubscript{4} tetrahedron; (b) the porous diamond framework formed by the tetrahedral units (one highlighted in red) as nodes sharing apices and showing open channels; (c) the side view of the channel. Color scheme: Zn blue, C grey, O red, and H white, and the C atoms of the protrude inward C-H groups, \textit{i.e.}, the C2 in black, C4 and C5 in green, see text.