Electronic Supplementary Information

Two Unusual (4,6)- and 8-Connected Metal-Organic Frameworks Constructed from Flexible 1,4-Benzenebis(thioacetic acid) and Pyridine-Based Ligands

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Thermogravimetric analysis

The thermogramimetric analyses (TGA) of the powder samples **1** and **2** were carried out from 30 to 700 °C under oxygen atmosphere. Two TG curves (Fig. 10) show two clear and well-separated weight loss steps. The first weight loss step of **1** occurred between 270-310°C corresponds to the release of 4,4'-bipy molecule (obsd 33.04%, calcd 33.13%), while the second step between 360 and 460 °C is attributed to the decomposition of L^{2-} ligand (obsd 54.73%,calcd 54.51%). For **2**, the first weight loss of 48.86% (calcd 49.35%) from 220 to 370℃ corresponds to the loss of L^{2-} ligands, the further decomposition occurred in the range 460−550℃, which is attribute to the elimination of bbp molecules (obsd 37.48%, calcd 37.93%).

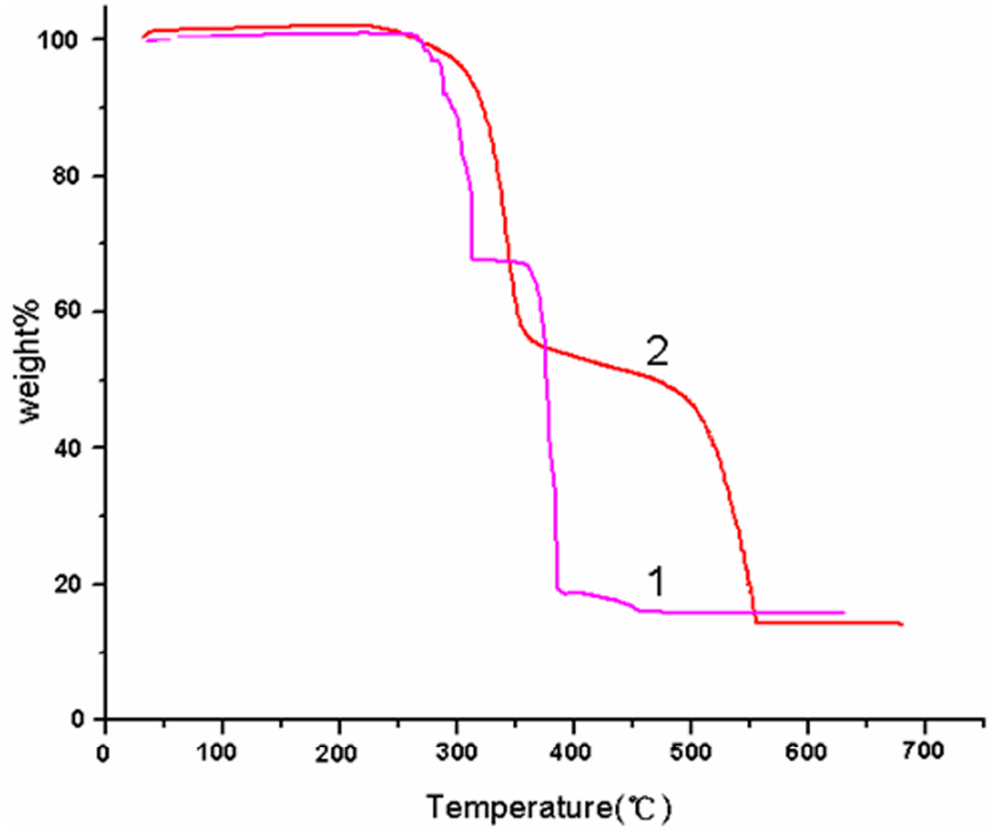

Figure S1. The TG curves of **1** and **2**.