

Supplementary Information

Title: Syntheses and Solid State Structures of Hybrid d¹⁰ Metal-Organic Frameworks Based on Methylenediisophthalic Acid (H₄MDIP)

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Table 1 Hydrogen bond distances [Å] and angles [°] in complexes **1-4**.
(D, donor atom; A, acceptor atom).

D – H	d(D – H)	d(H…A)	∠DHA	d(D…A)	A
1					
O6-H102	0.82	1.83	169.1	2.636(3)	O5#1
O4-H101	0.82	1.84	160.3	2.626(3)	O8#1
2					
O5-H5A	0.85	1.48	179.7	2.331(7)	O3#2
3					
O6-H6A	0.82	1.80	161.8	2.595(6)	O5#3
O9-H9A	0.85	1.90	166.5	2.730(7)	O3#4
4					
N1-H1A	0.90	2.14	150.7	2.960(6)	O2#5
N2-H2A	0.90	2.52	130.2	3.181(7)	O1#6
O5-H5B	0.85	1.84	171.2	2.682(5)	O1#6
O6-H6C	0.85	1.86	169.7	2.696(5)	O3#6
N1-H1B	0.90	2.18	146.8	2.978(5)	O4#7
N2-H2B	0.90	2.47	143.2	3.238(6)	O7#8
O5-H5A	0.85	1.92	173.4	2.768(5)	O6
O6-H6D	0.85	1.92	179.7	2.768(5)	O5
O7-H7C	0.85	2.20	136.0	2.876(6)	O6#9

Symmetry codes: #1 -x+2, -y+1, -z+2; #2 x, y, z-1; #3 -x-1, -y+1, -z+1; #4 x, y, z+1; #5 -x+3/2, -y+1/2, -z+2;

#6 -x+3/2, -y+3/2, -z+2; #7 -x+2, -y+1, -z+2; #8 x+1/2, -y+3/2, z+1/2; #9 -x+1/2, y+1/2, -z+3/2.

The TG figures of complexes **1-4**:

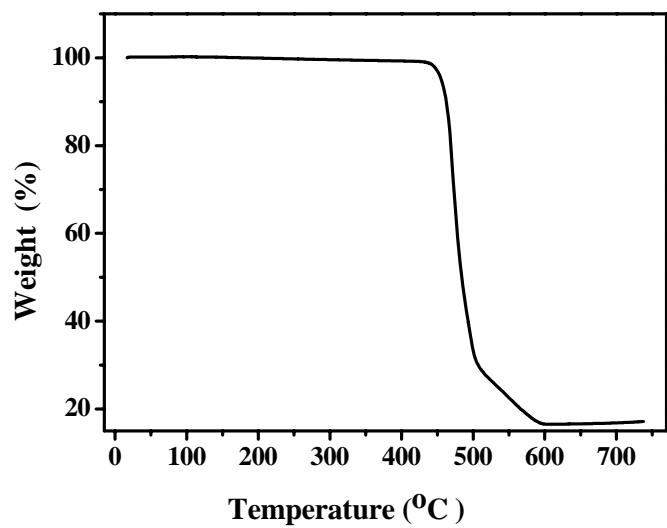


Fig. 1 TG curve of **1**.

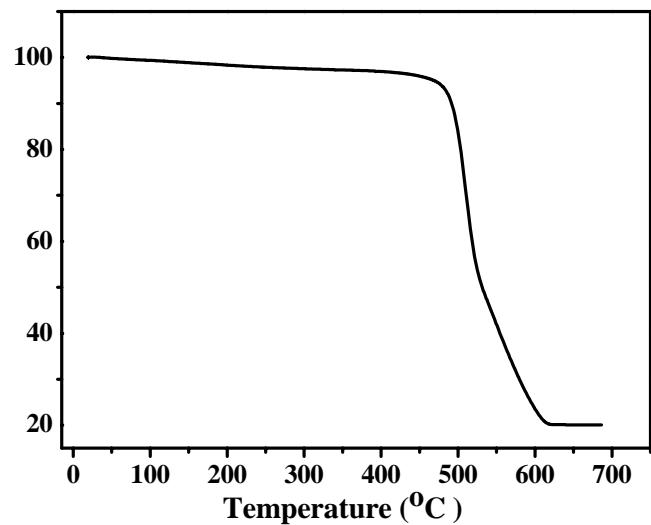


Fig. 2 TG curve of **2**.

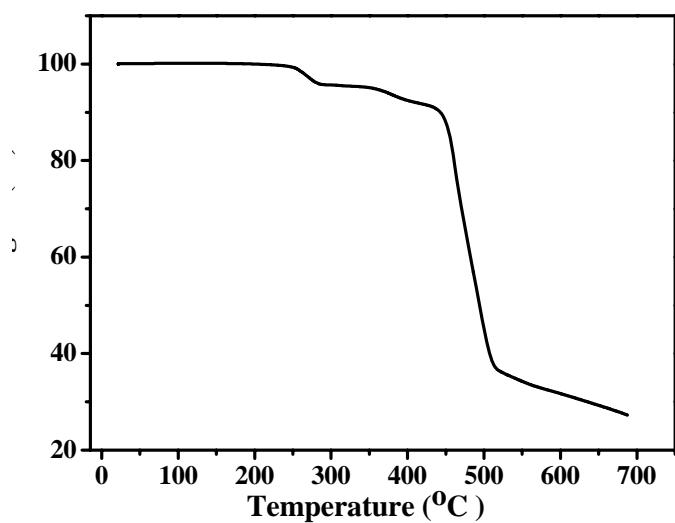


Fig. 3 TG curve of **3**.

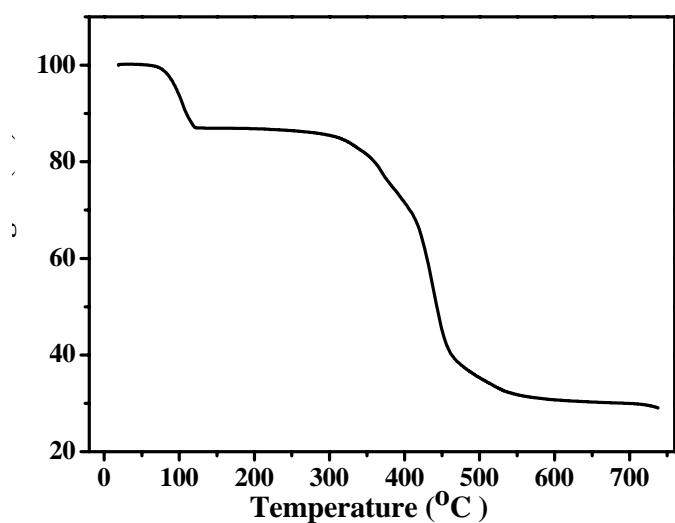


Fig. 4 TG curve of **4**.