

ACCESSORY PUBLICATION

Crystal Structures, and Magnetic or Photoluminescent Properties of Copper(II) and Zinc(II)-5-Sulfoisophthalate Coordination Polymers

Qing-Yan Liu,^{A,C,D} Yu-Ling Wang,^A Zi-Yi Du,^{B,D} Zeng-Mei Shan,^A Er-Lei Yang,^A and Na Zhang^A

^A College of Chemistry and Chemical Engineering, Jiangxi Normal University, Nanchang 330022, China.

^B College of Chemistry and Life Science, Gannan Normal University, Ganzhou 341000, China.

^C State Key Laboratory of Coordination Chemistry, Nanjing University, Nanjing 210093, China

^D Corresponding authors. Email: qyliu@hotmai.com; zydu@gmail.com

Table 1. Selected Bond Lengths (Å) and Bond Angles (deg) of 1 and 2.

Compound 1			
Cu1–O1	1.926(3)	Cu1–O8	1.972(3)
Cu1–O8A ^A	1.953(3)	Cu1–O3B	1.934(3)
Cu2–O4C	1.982(3)	Cu1–O5D	2.370(4)
Cu2–O2	1.975(3)	Cu2–O8	1.949(3)
Cu2–N1	1.954(4)	O1–Cu1–O8	94.85(13)
O3B–Cu1–O8A	94.34(12)	O1–Cu1–O8A	84.11(13)
O1–Cu1–O5D	97.79(14)	O3B–Cu1–O1	84.93(13)
O3B–Cu1–O5D	115.40(14)	O5D–Cu1–O8	80.63(12)
O1–Cu2–O8	91.56(12)	O5D–Cu1–O8A	88.18(12)
O2–Cu2–N1	85.39(14)	O4C–Cu2–O8	94.81(12)
Cu1–O8–Cu2	112.70(14)	O4C–Cu2–N1	88.23(14)
Cu2–O8–Cu1A	120.74(14)	Cu1–O8–Cu1A	95.89(13)
Compound 2			
Zn(1)–O(1)	2.013(3)	Zn(1)–O(8)	2.392(4)
Zn(1)–O(9)	2.092(4)	Zn(1)–O(8A)	2.158(3)
Zn(1)–N(1)	2.140(4)	Zn(1)–N(2)	2.108(4)
Zn(2)–O(3)	1.981(3)	Zn(2)–O(10)	2.015(8)
Zn(2)–N(3)	2.105(7)	Zn(2)–N(4)	2.175(6)
N(1)–Zn(1)–N(2)	78.96(15)	O(1)–Zn(1)–N(2)	93.43(14)
O(1)–Zn(1)–O(8A)	91.31(12)	N(1)–Zn(1)–O(8A)	95.27(14)
O(8)–Zn(1)–O(1)	87.43(13)	O(8)–Zn(1)–O(8A)	76.43(13)
O(8)–Zn(1)–N(1)	89.83(13)	O(8)–Zn(1)–N(2)	85.74(13)
O(9)–Zn(1)–O(1)	93.24(14)	O(9)–Zn(1)–O(8A)	93.02(14)
O(9)–Zn(1)–N(1)	90.81(14)	O(9)–Zn(1)–N(2)	104.72(15)
O(9)–Zn(1)–O(8)	169.44(13)	O(3)–Zn(2)–O(3B)	101.8(2)
O(3)–Zn(2)–N(3)	126.94(12)	O(3)–Zn(2)–O(10)	95.55(18)
O(10)–Zn(2)–N(3)	98.8(3)	O(3)–Zn(2)–N(4)	86.69(14)
N(3)–Zn(2)–N(4)	77.6(2)	O(10)–Zn(2)–N(4)	176.4(3)

^ASymmetry transformation for equivalent atoms for compound **1**: A: $-x, -y, -z + 1$; B: $x + 1/2, -y + 1/2, z - 1/2$; C: $-x - 1/2, y - 1/2, -z + 3/2$; D: $x + 1/2, -y + 1/2, z + 1/2$ and for compound **2**: A: $-x - 1, -y + 1, -z$; B: $x, -y + 1/2, z$.

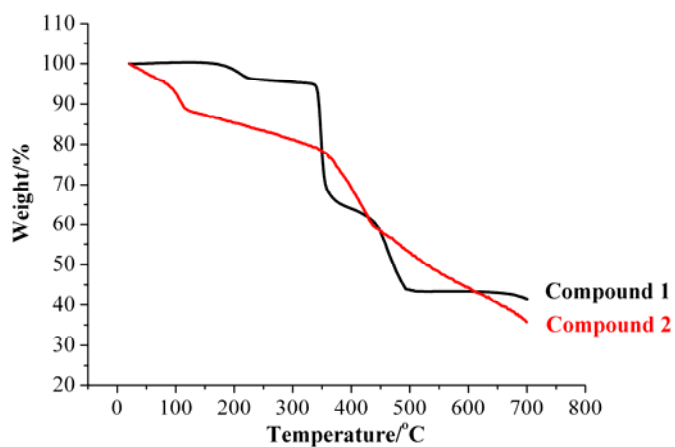


Fig. S1. TG curves of the compound **1** and **2**.

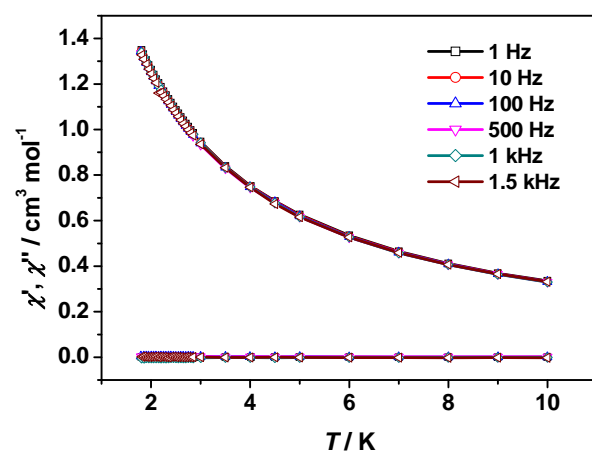


Fig. S2. Variable-temperature AC magnetic susceptibilities of compound **1**.

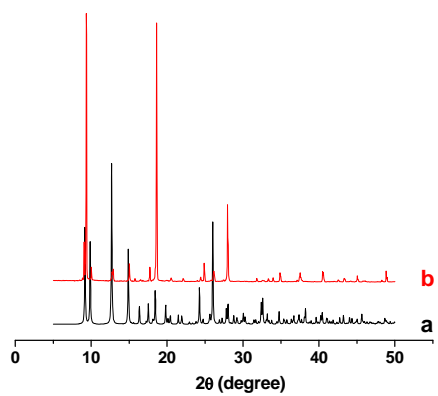


Fig. S3. X-ray powder diffraction pattern of compound **1**: (a) calculated and (b) observed.