

Supplementary material for Abu-Youssef et al. 2007

Table S1. Selected bond lengths (Å) and angles (°) for (1).

Cu(1)...Cu(2)	3.197(1)	Cu(1)...Cu(1A)	3.099(1)
Cu(2)...Cu(1B)	3.197(1)	Cu(1)...Cu(2C)	7.156(3)
Cu(2)...Cu(1D)	7.130(3)	Cu(1)-N(21)	1.978(3)
Cu(1)-N(31)	2.005(3)	Cu(1)-N(31A)	2.021(2)
Cu(1)-N(11)	2.023(2)	Cu(1)-N(1)	2.331(3)
Cu(2)-N(21B)	2.032(2)	Cu(2)-N(21)	2.032(2)
Cu(2)-N(2C)	2.040(2)	Cu(2)-N(2D)	2.040(2)
Cu(2)-N(11B)	2.353(3)	Cu(2)-N(11)	2.353(3)
N(11)-N(12)	1.207(4)	N(12)-N(13)	1.145(4)
N(21)-N(22)	1.218(4)	N(22)-N(23)	1.135(4)
N(31)-N(32)	1.222(4)	N(32)-N(33)	1.141(4)
N(21)-Cu(1)-N(31)	173.60(10)	N(21)-Cu(1)-N(31A)	97.42(10)
N(31)-Cu(1)-N(31A)	79.36(11)	N(21)-Cu(1)-N(11)	84.42(10)
N(31)-Cu(1)-N(11)	96.51(10)	N(31A)-Cu(1)-N(11)	158.19(10)
N(21)-Cu(1)-N(1)	92.90(10)	N(31)-Cu(1)-N(1)	93.40(10)
N(31A)-Cu(1)-N(1)	109.82(10)	N(11)-Cu(1)-N(1)	91.73(10)
N(21B)-Cu(2)-N(21)	89.87(14)	N(21B)-Cu(2)-N(2C)	178.73(10)
N(21)-Cu(2)-N(2C)	89.34(10)	N(21B)-Cu(2)-N(2D)	89.34(10)
N(21)-Cu(2)-N(2D)	178.73(10)	N(2C)-Cu(2)-N(2D)	91.47(14)
N(21B)-Cu(2)-N(11B)	75.22(9)	N(21)-Cu(2)-N(11B)	92.15(9)
N(2C)-Cu(2)-N(11B)	103.82(9)	N(2D)-Cu(2)-N(11B)	88.61(9)
N(21B)-Cu(2)-N(11)	92.15(9)	N(21)-Cu(2)-N(11)	75.22(9)
N(2C)-Cu(2)-N(11)	88.61(9)	N(2D)-Cu(2)-N(11)	103.82(9)
N(11B)-Cu(2)-N(11)	162.32(11)	N(12)-N(11)-Cu(1)	125.5(2)
N(12)-N(11)-Cu(2)	129.1(2)	Cu(1)-N(11)-Cu(2)	93.55(10)
N(13)-N(12)-N(11)	177.1(3)	N(22)-N(21)-Cu(1)	126.7(2)
N(22)-N(21)-Cu(2)	120.8(2)	Cu(1)-N(21)-Cu(2)	105.72(11)
N(23)-N(22)-N(21)	177.7(4)	N(32)-N(31)-Cu(1)	121.3(2)

N(32)-N(31)-Cu(1A)	132.2(2)	Cu(1)-N(31)-Cu(1A)	100.64(11)
N(33)-N(32)-N(31)	177.8(4)		

Symmetry codes: (A) $-x, -y, -z+1$; (B) $-x, y, -z+1/2$; (C) $-x+1/2, -y+1/2, -z+1$;
(D) $x-1/2, -y+1/2, z-1/2$.

Table S2. Selected bond lengths (Å) and angles (°) for (2).

Cu(1)-N(41)	1.970(5)	Cu(1)-N(2)	1.993(5)
Cu(1)-N(21)	1.996(5)	Cu(1)-N(11)	2.039(5)
Cu(1)-N(31)	2.235(5)	Cu(2)-N(33A)	1.980(5)
Cu(2)-N(1)	1.986(5)	Cu(2)-N(11)	2.005(5)
Cu(2)-N(21)	2.007(5)	Cu(2)-N(43B)	2.464(5)
N(11)-N(12)	1.203(7)	N(12)-N(13)	1.144(7)
N(21)-N(22)	1.214(7)	N(22)-N(23)	1.146(7)
N(31)-N(32)	1.168(7)	N(32)-N(33)	1.198(6)
N(41)-N(42)	1.199(6)	N(42)-N(43)	1.161(6)
N(41)-Cu(1)-N(2)	93.5(2)	N(41)-Cu(1)-N(21)	91.8(2)
N(2)-Cu(1)-N(21)	173.3(2)	N(41)-Cu(1)-N(11)	152.6(2)
N(2)-Cu(1)-N(11)	95.4(2)	N(21)-Cu(1)-N(11)	78.0(2)
N(41)-Cu(1)-N(31)	106.8(2)	N(2)-Cu(1)-N(31)	92.3(2)
N(21)-Cu(1)-N(31)	90.0(2)	N(11)-Cu(1)-N(31)	98.6(2)
N(33A)-Cu(2)-N(1)	95.1(2)	N(33A)-Cu(2)-N(11)	94.3(2)
N(1)-Cu(2)-N(11)	170.0(2)	N(33A)-Cu(2)-N(21)	172.7(2)
N(1)-Cu(2)-N(21)	92.2(2)	N(11)-Cu(2)-N(21)	78.6(2)
N(33A)-Cu(2)-N(43B)	86.8(2)	N(1)-Cu(2)-N(43B)	95.9(2)
N(11)-Cu(2)-N(43B)	88.1(2)	N(21)-Cu(2)-N(43B)	91.2(2)
N(12)-N(11)-Cu(2)	127.0(4)	N(12)-N(11)-Cu(1)	128.2(4)
Cu(2)-N(11)-Cu(1)	101.0(2)	N(13)-N(12)-N(11)	178.9(6)
N(22)-N(21)-Cu(1)	124.5(4)	N(22)-N(21)-Cu(2)	130.5(4)
Cu(1)-N(21)-Cu(2)	102.4(2)	N(23)-N(22)-N(21)	178.7(6)
N(32)-N(31)-Cu(1)	121.4(4)	N(31)-N(32)-N(33)	179.1(6)
N(32)-N(33)-Cu(2C)	117.1(4)	N(42)-N(41)-Cu(1)	124.1(4)
N(43)-N(42)-N(41)	176.6(6)	N(42)-N(43)-Cu(2B)	109.1(4)

Symmetry codes: (A) $-x+2, y+1/2, -z+1/2$; (B) $-x+3/2, -y+1/2, -z+1/2$;
(C) $-x+2, y-1/2, -z+1/2$.