Supporting Information to Accompany:

Synthesis and Characterization of a New Family of Bi-, Tri-, Tetra- and Pentanuclear Ferric Complexes.

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S2 **Table S1.** Selected Interatomic Distances (Å) and Angles (deg) for **1**·CH_2Cl_2

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S12 **Table S7.** Selected Interatomic Distances (Å) and Angles (deg) for **9**·1.5H_2O·2CH_2Cl_2·0.5C_2H_4O

S14 **Figure S1** Plot of magnetic data for **4**: (a) $\chi_M T$ and χ_M vs T and (b) $M(N\mu_B)^{-1}$ vs HT^{-1} at 1.8, 2.5, 4 and 8 K.

S14 **Figure S2** Plot of magnetic data for **7**: (a) $\chi_M T$ and χ_M vs T and (b) $M(N\mu_B)^{-1}$ vs HT^{-1} at 1.8, 2.5, 4 and 8 K.

S15 **Figure S3** Plot of magnetic data for **9**·2H_2O: (a) $\chi_M T$ and χ_M vs T and (b) $M(N\mu_B)^{-1}$ vs HT^{-1} at 1.8, 2.5, 4 and 8 K.

S16 **Figure S4** Variable Temperature Mössbauer spectra for **4**.

S17 **Figure S5** Variable Temperature Mössbauer spectra for **7**.

Table S1. Selected Interatomic Distances (Å) and Angles (deg) for **1**·CH_2Cl_2

Fe(1)	Fe(1)'	3.124(2)		Fe(1)	O(2)	2.0280(15)
Fe(1)	O(1)	1.9017(15)		Fe(1)	N(1)	2.1143(18)
Fe(1)	O(2)'	1.9999(17)		Fe(1)	N(2)	2.1564(18)
Fe(1)	O(3)	2.0136(18)				

Fe(1)	O(2)	Fe(1)'	101.71(6)	O(2)'	Fe(1)	N(1)	107.43(7)
O(1)	Fe(1)	O(2)'	194.54(7)	O(3)	Fe(1)	N(1)	86.36(7)
O(1)	Fe(1)	O(3)	99.90(7)	O(2)	Fe(1)	N(1)	77.89(7)
O(2)'	Fe(1)	O(3)	160.61(6)	O(1)	Fe(1)	N(2)	97.72(7)
O(1)	Fe(1)	O(2)	159.34(7)	O(2)'	Fe(1)	N(2)	88.44(7)
O(2)'	Fe(1)	O(2)	77.21(6)	O(3)	Fe(1)	N(2)	76.91(7)
O(3)	Fe(1)	O(2)	92.98(7)	O(2)	Fe(1)	N(2)	100.90(7)
O(1)	Fe(1)	N(1)	86.83(7)	N(1)	Fe(1)	N(2)	163.17(8)

Symmetry transformations used to generate equivalent atoms:
(') -x,y,-z+1/2

Table S2. Selected Interatomic Distances (Å) and Angles (deg) for **2**·CH_2Cl_2

Fe(1)	Fe(2)	3.471(2)
Fe(1)	Fe(3)	3.424(2)
Fe(2)	Fe(3)	3.519(2)
Fe(4)	Fe(5)	3.409(2)
Fe(4)	Fe(6)	3.511(2)
Fe(5)	Fe(6)	3.470(2)
N(1)	Fe(3)	2.123(6)
N(2)	Fe(1)	2.133(7)
N(3)	Fe(2)	2.109(6)
O(1)	Fe(3)	1.934(5)
O(2)	Fe(1)	1.995(5)
O(2)	Fe(3)	2.039(5)
O(3)	Fe(1)	1.926(6)
O(4)	Fe(2)	1.948(6)
O(4)	Fe(1)	2.057(6)
O(5)	Fe(2)	1.927(5)
O(6)	Fe(3)	1.956(5)
O(6)	Fe(2)	2.012(5)
O(7)	Fe(3)	2.055(5)
O(8)	Fe(1)	2.058(6)
O(9)	Fe(1)	2.046(4)
O(10)	Fe(2)	2.057(5)
O(11)	Fe(2)	2.024(5)
O(12)	Fe(3)	2.065(5)
N(4)	Fe(5)	2.133(8)
N(5)	Fe(6)	2.105(6)
N(6)	Fe(4)	2.134(6)
O(13)	Fe(5)	1.921(7)
O(14)	Fe(6)	1.943(5)
O(14)	Fe(5)	2.040(5)
O(15)	Fe(6)	1.937(5)
O(16)	Fe(4)	1.975(5)
O(16)	Fe(6)	2.002(5)
O(17)	Fe(4)	1.926(6)
O(18)	Fe(5)	1.996(5)
O(18)	Fe(4)	2.038(5)
O(19)	Fe(4)	2.040(5)
O(20)	Fe(5)	2.039(5)
O(21)	Fe(6)	2.037(5)
O(22)	Fe(4)	2.051(5)
O(23)	Fe(5)	2.059(4)
O(24)	Fe(6)	2.054(5)

Fe(1)	O(2)	Fe(3)	116.1(2)
Fe(2)	O(4)	Fe(1)	120.2(3)
Fe(3)	O(6)	Fe(2)	124.7(2)
Fe(6)	O(14)	Fe(5)	121.2(3)
Fe(4)	O(16)	Fe(6)	124.0(2)
Fe(5)	O(18)	Fe(4)	115.4(2)
O(3)	Fe(1)	O(2)	99.5(2)
O(3)	Fe(1)	O(8)	85.9(3)
O(2)	Fe(1)	O(8)	88.6(2)
O(3)	Fe(1)	O(4)	161.1(2)
O(2)	Fe(1)	O(4)	82.37(19)
O(8)	Fe(1)	O(4)	113.0(2)
O(3)	Fe(1)	O(9)	98.2(2)
O(2)	Fe(1)	O(9)	159.3(2)
O(8)	Fe(1)	O(9)	82.1(2)
O(4)	Fe(1)	O(9)	84.4(2)
O(3)	Fe(1)	N(2)	83.5(3)
O(2)	Fe(1)	N(2)	93.2(2)
O(8)	Fe(1)	N(2)	169.4(3)
O(4)	Fe(1)	N(2)	77.6(2)
O(9)	Fe(1)	N(2)	99.3(2)
O(5)	Fe(2)	O(4)	103.1(2)
O(5)	Fe(2)	O(6)	163.5(2)
O(4)	Fe(2)	O(6)	92.9(2)
O(5)	Fe(2)	O(11)	87.3(2)
O(4)	Fe(2)	O(11)	89.3(2)
O(6)	Fe(2)	O(11)	88.6(2)
O(5)	Fe(2)	O(10)	92.5(2)
O(4)	Fe(2)	O(10)	86.4(2)
O(6)	Fe(2)	O(10)	92.7(2)
O(11)	Fe(2)	O(10)	175.6(2)
O(5)	Fe(2)	N(3)	85.7(2)
O(4)	Fe(2)	N(3)	169.1(2)
O(6)	Fe(2)	N(3)	79.0(2)
O(11)	Fe(2)	N(3)	97.6(2)
O(10)	Fe(2)	N(3)	86.7(2)
O(1)	Fe(3)	O(6)	93.3(2)
O(1)	Fe(3)	O(2)	163.4(2)
O(6)	Fe(3)	O(2)	103.0(2)
O(1)	Fe(3)	O(7)	91.1(2)
O(6)	Fe(3)	O(7)	88.8(2)
O(2)	Fe(3)	O(7)	85.7(2)
O(1)	Fe(3)	O(12)	94.3(2)
O(6)	Fe(3)	O(12)	89.9(2)
O(2)	Fe(3)	O(12)	89.3(2)
O(7)	Fe(3)	O(12)	174.5(2)
O(1)	Fe(3)	N(1)	85.1(2)
O(6)	Fe(3)	N(1)	178.3(2)
O(2)	Fe(3)	N(1)	78.7(2)
O(7)	Fe(3)	N(1)	91.6(2)

O(12)	Fe(3)	N(1)	89.8(2)
O(17)	Fe(4)	O(16)	93.1(2)
O(17)	Fe(4)	O(18)	162.5(2)
O(16)	Fe(4)	O(18)	104.2(2)
O(17)	Fe(4)	O(19)	91.8(2)
O(16)	Fe(4)	O(19)	87.7(2)
O(18)	Fe(4)	O(19)	86.0(2)
O(17)	Fe(4)	O(22)	93.3(2)
O(16)	Fe(4)	O(22)	89.7(2)
O(18)	Fe(4)	O(22)	89.8(2)
O(19)	Fe(4)	O(22)	174.4(2)
O(17)	Fe(4)	N(6)	84.3(2)
O(16)	Fe(4)	N(6)	177.1(2)
O(18)	Fe(4)	N(6)	78.4(2)
O(19)	Fe(4)	N(6)	91.2(2)
O(22)	Fe(4)	N(6)	91.6(2)
O(13)	Fe(5)	O(18)	98.3(2)
O(13)	Fe(5)	O(20)	87.0(3)
O(18)	Fe(5)	O(20)	89.48(19)
O(13)	Fe(5)	O(14)	161.3(3)
O(18)	Fe(5)	O(14)	83.1(2)
O(20)	Fe(5)	O(14)	111.7(2)
O(13)	Fe(5)	O(23)	98.7(2)
O(18)	Fe(5)	O(23)	160.5(2)
O(20)	Fe(5)	O(23)	81.81(19)
O(14)	Fe(5)	O(23)	83.91(19)
O(13)	Fe(5)	N(4)	83.0(3)
O(18)	Fe(5)	N(4)	93.5(2)
O(20)	Fe(5)	N(4)	169.9(3)
O(14)	Fe(5)	N(4)	78.4(2)
O(23)	Fe(5)	N(4)	98.1(2)
O(15)	Fe(6)	O(14)	103.3(2)
O(15)	Fe(6)	O(16)	162.9(2)
O(14)	Fe(6)	O(16)	92.9(2)
O(15)	Fe(6)	O(21)	86.4(2)
O(14)	Fe(6)	O(21)	89.3(2)
O(16)	Fe(6)	O(21)	88.50(19)
O(15)	Fe(6)	O(24)	93.6(2)
O(14)	Fe(6)	O(24)	85.3(2)
O(16)	Fe(6)	O(24)	93.0(2)
O(21)	Fe(6)	O(24)	174.5(2)
O(15)	Fe(6)	N(5)	85.8(2)
O(14)	Fe(6)	N(5)	168.6(2)
O(16)	Fe(6)	N(5)	78.7(2)
O(21)	Fe(6)	N(5)	98.1(2)
O(24)	Fe(6)	N(5)	87.3(2)

Table S3. Selected Interatomic Distances (Å) and Angles (deg) for **4**·CH_2Cl_2

Fe(1)	Fe(2)	3.454(2)	Fe(2)	O(6)	2.002(8)
Fe(1)	Fe(3)	3.409(2)	Fe(2)	O(11)	2.077(9)
Fe(2)	Fe(3)	3.534(2)	Fe(2)	O(10)	2.107(8)
Fe(1)	O(3)	1.875(9)	Fe(2)	N(3)	2.108(9)
Fe(1)	O(2)	1.992(7)	Fe(3)	O(1)	1.924(7)
Fe(1)	O(4)	2.024(9)	Fe(3)	O(6)	1.969(8)
Fe(1)	O(9)	2.032(8)	Fe(3)	O(12)	2.015(9)
Fe(1)	O(8)	2.080(7)	Fe(3)	O(2)	2.026(7)
Fe(1)	N(2)	2.182(8)	Fe(3)	O(7)	2.084(8)
Fe(2)	O(5)	1.881(9)	Fe(3)	N(1)	2.122(10)
Fe(2)	O(4)	1.918(8)			

Fe(1)-O(2)-Fe(3)	116.1(4)	O(5)-Fe(2)-O(10)	92.7(4)
Fe(2)-O(4)-Fe(1)	122.3(4)	O(4)-Fe(2)-O(10)	86.7(3)
Fe(3)-O(6)-Fe(2)	125.7(4)	O(6)-Fe(2)-O(10)	90.0(3)
O(3)-Fe(1)-O(2)	92.6(3)	O(11)-Fe(2)-O(10)	176.3(4)
O(3)-Fe(1)-O(4)	159.7(3)	O(5)-Fe(2)-N(3)	87.6(4)
O(2)-Fe(1)-O(4)	82.9(3)	O(4)-Fe(2)-N(3)	169.9(4)
O(3)-Fe(1)-O(9)	104.6(4)	O(6)-Fe(2)-N(3)	79.3(3)
O(2)-Fe(1)-O(9)	158.2(3)	O(11)-Fe(2)-N(3)	94.0(3)
O(4)-Fe(1)-O(9)	85.2(3)	O(10)-Fe(2)-N(3)	88.9(3)
O(3)-Fe(1)-O(8)	85.4(3)	O(1)-Fe(3)-O(6)	93.4(3)
O(2)-Fe(1)-O(8)	88.9(3)	O(1)-Fe(3)-O(12)	94.2(3)
O(4)-Fe(1)-O(8)	114.2(3)	O(6)-Fe(3)-O(12)	89.8(3)
O(9)-Fe(1)-O(8)	79.4(3)	O(1)-Fe(3)-O(2)	164.3(3)
O(3)-Fe(1)-N(2)	83.8(4)	O(6)-Fe(3)-O(2)	101.5(3)
O(2)-Fe(1)-N(2)	107.2(3)	O(12)-Fe(3)-O(2)	90.8(3)
O(4)-Fe(1)-N(2)	78.7(3)	O(1)-Fe(3)-O(7)	88.5(3)
O(9)-Fe(1)-N(2)	88.2(3)	O(6)-Fe(3)-O(7)	89.0(3)
O(8)-Fe(1)-N(2)	160.9(3)	O(12)-Fe(3)-O(7)	177.1(3)
O(5)-Fe(2)-O(4)	101.7(4)	O(2)-Fe(3)-O(7)	86.8(3)
O(5)-Fe(2)-O(6)	166.6(3)	O(1)-Fe(3)-N(1)	85.3(3)
O(4)-Fe(2)-O(6)	91.6(3)	O(6)-Fe(3)-N(1)	178.3(3)
O(5)-Fe(2)-O(11)	89.6(4)	O(12)-Fe(3)-N(1)	91.4(4)
O(4)-Fe(2)-O(11)	90.1(3)	O(2)-Fe(3)-N(1)	79.6(3)
O(6)-Fe(2)-O(11)	88.4(3)	O(7)-Fe(3)-N(1)	89.8(4)

Table S4. Selected Interatomic Distances (Å) and Angles (deg) for **5**·0.5MeOH

Fe(1)	Fe(2)	3.111(2)		Fe(2)	O(5)	1.907(2)
Fe(1)	Fe(2)'	3.544(2)		Fe(2)	O(2)	1.965(2)
Fe(1)	O(1)	1.915(2)		Fe(2)	O(6)	2.0009(19)
Fe(1)	O(6)'	1.9680(19)		Fe(2)	O(7)	2.037(2)
Fe(1)	O(7)	2.002(2)		Fe(2)	O(4)	2.041(2)
Fe(1)	O(2)	2.0146(19)		Fe(2)	N(2)	2.125(2)
Fe(1)	O(3)'	2.050(2)				
Fe(1)	N(1)	2.156(2)				
Fe(2)	O(2)	Fe(1)	102.85(9)	O(3)'	Fe(1)	N(1)	83.03(9)
Fe(1)'	O(6)	Fe(2)	126.49(10)	O(5)	Fe(2)	O(2)	99.87(9)
Fe(1)	O(7)	Fe(2)	100.75(8)	O(5)	Fe(2)	O(6)	165.74(9)
O(1)	Fe(1)	O(6)'	194.61(8)	O(2)	Fe(2)	O(6)	94.38(8)
O(1)	Fe(1)	O(7)	95.09(9)	O(5)	Fe(2)	O(7)	93.64(9)
O(6)'	Fe(1)	O(7)	93.48(8)	O(2)	Fe(2)	O(7)	78.07(8)
O(1)	Fe(1)	O(2)	161.44(8)	O(6)	Fe(2)	O(7)	89.56(8)
O(6)'	Fe(1)	O(2)	102.84(8)	O(5)	Fe(2)	O(4)	89.48(9)
O(7)	Fe(1)	O(2)	77.76(8)	O(2)	Fe(2)	O(4)	94.29(8)
O(1)	Fe(1)	O(3)'	94.61(9)	O(6)	Fe(2)	O(4)	89.17(8)
O(6)'	Fe(1)	O(3)'	88.01(8)	O(7)	Fe(2)	O(4)	172.14(9)
O(7)	Fe(1)	O(3)'	170.03(9)	O(5)	Fe(2)	N(2)	86.28(9)
O(2)	Fe(1)	O(3)'	92.30(8)	O(2)	Fe(2)	N(2)	168.16(9)
O(1)	Fe(1)	N(1)	86.01(9)	O(6)	Fe(2)	N(2)	79.74(9)
O(6)'	Fe(1)	N(1)	171.04(9)	O(7)	Fe(2)	N(2)	91.54(9)
O(7)	Fe(1)	N(1)	95.37(9)	O(4)	Fe(2)	N(2)	95.87(9)
O(2)	Fe(1)	N(1)	77.75(8)				

Symmetry transformations used to generate equivalent atoms:
(') -x,y,-z+1/2

Table S5. Selected Interatomic Distances (Å) and Angles (deg) for **7**·H_2O·C_7H_8·0.5C_6H_{14}

Fe(1)	Fe(2)	3.205(2)	O(4)	Fe(1)	2.004(3)
Fe(1)	Fe(3)	3.084(2)	O(5)	Fe(2)	2.049(3)
Fe(2)	Fe(3)	2.989(2)	O(5)	Fe(1)	2.096(4)
Fe(2)	Fe(4)	3.547(2)	O(6)	Fe(2)	1.987(3)
Fe(2)	Fe(5)	3.384(2)	O(6)	Fe(4)	1.990(3)
Fe(3)	Fe(4)	3.555(2)	O(7)	Fe(1)	2.064(4)
Fe(3)	Fe(5)	3.374(2)	O(8)	Fe(3)	2.058(3)
Fe(4)	Fe(5)	3.534(2)	O(9)	Fe(2)	1.988(3)
N(1)	Fe(1)	2.111(4)	O(10)	Fe(5)	2.077(4)
N(2)	Fe(2)	2.103(4)	O(11)	Fe(4)	2.083(3)
N(3)	Fe(4)	2.142(4)	O(13)	Fe(4)	1.923(3)
N(4)	Fe(5)	2.112(4)	O(14)	Fe(3)	1.948(3)
O(1)	Fe(1)	2.023(3)	O(14)	Fe(4)	2.035(3)
O(1)	Fe(2)	2.031(3)	O(15)	Fe(5)	1.940(4)
O(1)	Fe(3)	2.098(3)	O(16)	Fe(5)	2.001(3)
O(2)	Fe(5)	1.879(3)	O(16)	Fe(4)	2.010(3)
O(2)	Fe(2)	1.920(3)	O(17)	Fe(3)	1.992(3)
O(2)	Fe(3)	1.930(3)	O(18)	Fe(5)	2.101(4)
O(3)	Fe(1)	1.881(3)			
O(4)	Fe(3)	1.988(3)			

Fe(1)	O(1)	Fe(2)	104.46(14)	O(2)	Fe(2)	O(9)	95.95(14)
Fe(1)	O(1)	Fe(3)	96.86(13)	O(6)	Fe(2)	O(9)	98.70(14)
Fe(2)	O(1)	Fe(3)	92.73(12)	O(2)	Fe(2)	O(1)	83.70(13)
Fe(5)	O(2)	Fe(2)	125.94(18)	O(6)	Fe(2)	O(1)	93.90(13)
Fe(5)	O(2)	Fe(3)	124.72(17)	O(9)	Fe(2)	O(1)	167.39(13)
Fe(2)	O(2)	Fe(3)	101.88(14)	O(2)	Fe(2)	O(5)	104.23(13)
Fe(3)	O(4)	Fe(1)	101.18(15)	O(6)	Fe(2)	O(5)	161.84(12)
Fe(2)	O(5)	Fe(1)	101.29(13)	O(9)	Fe(2)	O(5)	91.10(13)
Fe(2)	O(6)	Fe(4)	126.16(17)	O(1)	Fe(2)	O(5)	76.84(13)
Fe(3)	O(14)	Fe(4)	126.35(16)	O(2)	Fe(2)	N(2)	169.91(14)
Fe(5)	O(16)	Fe(4)	123.57(16)	O(6)	Fe(2)	N(2)	80.25(14)
O(3)	Fe(1)	O(4)	164.28(15)	O(9)	Fe(2)	N(2)	88.10(15)
O(3)	Fe(1)	O(1)	114.98(14)	O(1)	Fe(2)	N(2)	94.36(14)
O(4)	Fe(1)	O(1)	80.49(13)	O(5)	Fe(2)	N(2)	84.87(14)
O(3)	Fe(1)	O(7)	93.38(15)	O(2)	Fe(3)	O(14)	91.82(14)
O(4)	Fe(1)	O(7)	90.85(14)	O(2)	Fe(3)	O(4)	90.63(14)
O(1)	Fe(1)	O(7)	84.49(14)	O(14)	Fe(3)	O(4)	169.25(13)
O(3)	Fe(1)	O(5)	91.21(14)	O(2)	Fe(3)	O(17)	99.88(14)
O(4)	Fe(1)	O(5)	89.95(13)	O(14)	Fe(3)	O(17)	96.21(13)
O(1)	Fe(1)	O(5)	75.97(12)	O(4)	Fe(3)	O(17)	93.67(14)
O(7)	Fe(1)	O(5)	160.04(14)	O(2)	Fe(3)	O(8)	167.17(13)
O(3)	Fe(1)	N(1)	87.06(15)	O(14)	Fe(3)	O(8)	88.73(14)
O(4)	Fe(1)	N(1)	77.43(15)	O(4)	Fe(3)	O(8)	86.57(14)
O(1)	Fe(1)	N(1)	157.92(14)	O(17)	Fe(3)	O(8)	92.80(15)
O(7)	Fe(1)	N(1)	96.08(17)	O(2)	Fe(3)	O(1)	81.68(13)
O(5)	Fe(1)	N(1)	103.55(15)	O(14)	Fe(3)	O(1)	90.97(12)
O(2)	Fe(2)	O(6)	90.00(13)	O(4)	Fe(3)	O(1)	79.04(13)

O(17)	Fe(3)	O(1)	172.59(13)
O(8)	Fe(3)	O(1)	85.50(13)
O(13)	Fe(4)	O(6)	95.36(14)
O(13)	Fe(4)	O(16)	93.29(14)
O(6)	Fe(4)	O(16)	90.81(13)
O(13)	Fe(4)	O(14)	163.60(13)
O(6)	Fe(4)	O(14)	100.48(13)
O(16)	Fe(4)	O(14)	90.73(13)
O(13)	Fe(4)	O(11)	89.03(14)
O(6)	Fe(4)	O(11)	91.59(13)
O(16)	Fe(4)	O(11)	176.50(14)
O(14)	Fe(4)	O(11)	86.32(13)
O(13)	Fe(4)	N(3)	85.40(15)
O(6)	Fe(4)	N(3)	178.23(14)
O(16)	Fe(4)	N(3)	90.74(14)
O(14)	Fe(4)	N(3)	78.65(14)
O(11)	Fe(4)	N(3)	86.83(14)
O(2)	Fe(5)	O(15)	100.13(15)
O(2)	Fe(5)	O(16)	95.55(13)
O(15)	Fe(5)	O(16)	164.08(14)
O(2)	Fe(5)	O(10)	93.83(14)
O(15)	Fe(5)	O(10)	90.10(18)
O(16)	Fe(5)	O(10)	91.63(15)
O(2)	Fe(5)	O(18)	95.11(14)
O(15)	Fe(5)	O(18)	87.33(18)
O(16)	Fe(5)	O(18)	88.52(15)
O(10)	Fe(5)	O(18)	171.00(14)
O(2)	Fe(5)	N(4)	174.40(16)
O(15)	Fe(5)	N(4)	85.48(17)
O(16)	Fe(5)	N(4)	78.85(15)
O(10)	Fe(5)	N(4)	86.22(17)
O(18)	Fe(5)	N(4)	84.98(17)

Table S6. Selected Interatomic Distances (Å) and Angles (deg) for **8**·0.25H_2O·4.5CH_2Cl_2

Fe(1)	Fe(2)	3.215(2)		Fe(4)	N(3)	2.165(6)	
Fe(1)	Fe(3)	3.039(2)		Fe(5)	O(2)	1.889(5)	
Fe(2)	Fe(3)	3.003(2)		Fe(5)	O(15)	1.905(6)	
Fe(2)	Fe(4)	3.549(2)		Fe(5)	O(16)	1.997(6)	
Fe(2)	Fe(5)	3.396(2)		Fe(5)	O(10)	2.100(5)	
Fe(3)	Fe(4)	3.576(2)		Fe(5)	O(18)	2.116(5)	
Fe(3)	Fe(5)	3.357(2)		Fe(5)	N(4)	2.157(6)	
Fe(4)	Fe(5)	3.591(2)		Fe(6)	O(21)	1.871(5)	
Fe(6)	Fe(7)	3.218(2)		Fe(6)	O(19)	1.989(5)	
Fe(6)	Fe(8)	3.033(2)		Fe(6)	O(22)	2.000(5)	
Fe(7)	Fe(8)	3.002(2)		Fe(6)	O(25)	2.055(5)	
Fe(7)	Fe(9)	3.557(2)		Fe(6)	N(5)	2.101(7)	
Fe(7)	Fe(10)	3.387(2)		Fe(6)	O(23)	2.130(5)	
Fe(8)	Fe(9)	3.569(2)		Fe(7)	O(20)	1.917(4)	
Fe(8)	Fe(10)	3.365(2)		Fe(7)	O(24)	1.981(5)	
Fe(9)	Fe(10)	3.582(2)		Fe(7)	O(27)	2.002(5)	
Fe(1)	O(3)	1.881(5)		Fe(7)	O(23)	2.007(5)	
Fe(1)	O(1)	1.987(5)		Fe(7)	O(19)	2.046(5)	
Fe(1)	O(4)	2.004(5)		Fe(7)	N(6)	2.143(6)	
Fe(1)	O(7)	2.044(5)		Fe(8)	O(20)	1.937(5)	
Fe(1)	N(1)	2.090(7)		Fe(8)	O(34)	1.956(5)	
Fe(1)	O(5)	2.112(5)		Fe(8)	O(29)	1.963(5)	
Fe(2)	O(2)	1.922(5)		Fe(8)	O(22)	2.007(5)	
Fe(2)	O(6)	1.981(5)		Fe(8)	O(19)	2.069(4)	
Fe(2)	O(9)	1.988(5)		Fe(8)	O(26)	2.084(5)	
Fe(2)	O(5)	2.025(5)		Fe(9)	O(33)	1.895(6)	
Fe(2)	O(1)	2.045(5)		Fe(9)	O(24)	1.997(4)	
Fe(2)	N(2)	2.137(6)		Fe(9)	O(34)	2.020(5)	
Fe(3)	O(2)	1.927(5)		Fe(9)	O(36)	2.025(5)	
Fe(3)	O(14)	1.967(5)		Fe(9)	O(31)	2.060(5)	
Fe(3)	O(17)	1.980(5)		Fe(9)	N(7)	2.141(5)	
Fe(3)	O(4)	1.986(6)		Fe(10)	O(20)	1.891(5)	
Fe(3)	O(1)	2.072(4)		Fe(10)	O(35)	1.921(5)	
Fe(3)	O(8)	2.096(5)		Fe(10)	O(36)	1.995(5)	
Fe(4)	O(13)	1.909(6)		Fe(10)	O(28)	2.102(5)	
Fe(4)	O(14)	2.013(6)		Fe(10)	O(30)	2.130(5)	
Fe(4)	O(6)	2.015(4)		Fe(10)	N(8)	2.148(6)	
Fe(4)	O(16)	2.040(5)					
Fe(4)	O(11)	2.057(5)					

Fe(1)	O(1)	Fe(2)	105.8(2)	Fe(2)	O(6)	Fe(4)	125.3(3)
Fe(1)	O(1)	Fe(3)	96.9(2)	Fe(3)	O(14)	Fe(4)	127.9(2)
Fe(2)	O(1)	Fe(3)	93.70(19)	Fe(5)	O(16)	Fe(4)	125.6(3)
Fe(5)	O(2)	Fe(2)	126.0(3)	Fe(6)	O(19)	Fe(7)	105.8(2)
Fe(5)	O(2)	Fe(3)	123.2(2)	Fe(6)	O(19)	Fe(8)	96.7(2)
Fe(2)	O(2)	Fe(3)	102.6(2)	Fe(7)	O(19)	Fe(8)	93.69(18)
Fe(3)	O(4)	Fe(1)	99.2(2)	Fe(10)	O(20)	Fe(7)	125.6(3)
Fe(2)	O(5)	Fe(1)	102.0(2)	Fe(10)	O(20)	Fe(8)	123.1(2)

Fe(7)	O(20)	Fe(8)	102.3(2)
Fe(6)	O(22)	Fe(8)	98.4(2)
Fe(7)	O(23)	Fe(6)	102.10(19)
Fe(7)	O(24)	Fe(9)	126.7(3)
Fe(8)	O(34)	Fe(9)	127.7(2)
Fe(10)	O(36)	Fe(9)	126.0(3)
O(3)	Fe(1)	O(7)	91.1(2)
O(1)	Fe(1)	O(7)	84.9(2)
O(4)	Fe(1)	O(7)	92.0(2)
O(3)	Fe(1)	N(1)	87.9(2)
O(1)	Fe(1)	N(1)	160.6(2)
O(4)	Fe(1)	N(1)	79.5(2)
O(7)	Fe(1)	N(1)	100.1(2)
O(3)	Fe(1)	O(5)	95.0(2)
O(1)	Fe(1)	O(5)	75.66(19)
O(4)	Fe(1)	O(5)	86.19(19)
O(7)	Fe(1)	O(5)	160.5(2)
N(1)	Fe(1)	O(5)	98.6(2)
O(2)	Fe(2)	O(6)	93.3(2)
O(2)	Fe(2)	O(9)	96.6(2)
O(6)	Fe(2)	O(9)	100.5(2)
O(2)	Fe(2)	O(5)	100.8(2)
O(6)	Fe(2)	O(5)	157.70(19)
O(9)	Fe(2)	O(5)	95.0(2)
O(2)	Fe(2)	O(1)	82.25(19)
O(6)	Fe(2)	O(1)	88.6(2)
O(9)	Fe(2)	O(1)	170.8(2)
O(5)	Fe(2)	O(1)	76.4(2)
O(2)	Fe(2)	N(2)	170.9(2)
O(6)	Fe(2)	N(2)	80.8(2)
O(9)	Fe(2)	N(2)	91.3(2)
O(5)	Fe(2)	N(2)	83.0(2)
O(1)	Fe(2)	N(2)	90.7(2)
O(2)	Fe(3)	O(14)	90.4(2)
O(2)	Fe(3)	O(17)	101.4(2)
O(14)	Fe(3)	O(17)	95.2(2)
O(2)	Fe(3)	O(4)	94.4(2)
O(14)	Fe(3)	O(4)	167.37(19)
O(17)	Fe(3)	O(4)	95.3(2)
O(2)	Fe(3)	O(1)	81.43(19)
O(14)	Fe(3)	O(1)	89.2(2)
O(17)	Fe(3)	O(1)	174.7(2)
O(4)	Fe(3)	O(1)	80.0(2)
O(2)	Fe(3)	O(8)	167.1(2)
O(14)	Fe(3)	O(8)	86.6(2)
O(17)	Fe(3)	O(8)	91.4(2)
O(4)	Fe(3)	O(8)	86.1(2)
O(1)	Fe(3)	O(8)	85.94(19)
O(13)	Fe(4)	O(14)	64.9(2)
O(13)	Fe(4)	O(6)	94.5(2)
O(14)	Fe(4)	O(6)	100.6(2)
O(13)	Fe(4)	O(16)	93.0(2)
O(14)	Fe(4)	O(16)	87.9(2)
O(6)	Fe(4)	O(16)	90.51(19)
O(13)	Fe(4)	O(11)	87.5(2)
O(14)	Fe(4)	O(11)	91.3(2)
O(6)	Fe(4)	O(11)	90.43(19)
O(16)	Fe(4)	O(11)	178.9(2)
O(13)	Fe(4)	N(3)	84.5(2)
O(14)	Fe(4)	N(3)	80.4(2)
O(6)	Fe(4)	N(3)	177.6(2)
O(16)	Fe(4)	N(3)	91.7(2)
O(11)	Fe(4)	N(3)	87.3(2)
O(2)	Fe(5)	O(15)	99.9(2)
O(2)	Fe(5)	O(16)	94.7(2)
O(15)	Fe(5)	O(16)	165.4(2)
O(2)	Fe(5)	O(10)	92.7(2)
O(15)	Fe(5)	O(10)	89.0(3)
O(16)	Fe(5)	O(10)	90.1(2)
O(2)	Fe(5)	O(18)	94.9(2)
O(15)	Fe(5)	O(18)	88.9(2)
O(16)	Fe(5)	O(18)	90.1(2)
O(10)	Fe(5)	O(18)	172.4(2)
O(2)	Fe(5)	N(4)	175.3(3)
O(15)	Fe(5)	N(4)	84.7(3)
O(16)	Fe(5)	N(4)	80.7(2)
O(10)	Fe(5)	N(4)	86.5(2)
O(18)	Fe(5)	N(4)	86.0(2)
O(21)	Fe(6)	O(19)	110.3(2)
O(21)	Fe(6)	O(22)	167.0(2)
O(19)	Fe(6)	O(22)	82.5(2)
O(21)	Fe(6)	O(25)	92.9(2)
O(19)	Fe(6)	O(25)	85.3(2)
O(22)	Fe(6)	O(25)	90.53(19)
O(21)	Fe(6)	N(5)	87.9(2)
O(19)	Fe(6)	N(5)	161.4(2)
O(22)	Fe(6)	N(5)	79.1(2)
O(25)	Fe(6)	N(5)	97.9(2)
O(21)	Fe(6)	O(23)	93.7(2)
O(19)	Fe(6)	O(23)	75.18(19)
O(22)	Fe(6)	O(23)	87.12(19)
O(25)	Fe(6)	O(23)	160.5(2)
N(5)	Fe(6)	O(23)	100.6(2)
O(20)	Fe(7)	O(24)	93.5(2)
O(20)	Fe(7)	O(27)	98.0(2)
O(24)	Fe(7)	O(27)	95.3(2)
O(20)	Fe(7)	O(23)	99.5(2)
O(24)	Fe(7)	O(23)	157.86(19)
O(27)	Fe(7)	O(23)	100.5(2)
O(20)	Fe(7)	O(19)	82.54(18)

O(24)	Fe(7)	O(19)	87.4(2)
O(27)	Fe(7)	O(19)	177.2(2)
O(23)	Fe(7)	O(19)	76.71(19)
O(20)	Fe(7)	N(6)	171.7(2)
O(24)	Fe(7)	N(6)	81.2(2)
O(27)	Fe(7)	N(6)	88.9(2)
O(23)	Fe(7)	N(6)	83.7(2)
O(19)	Fe(7)	N(6)	90.8(2)
O(20)	Fe(8)	O(34)	90.7(2)
O(20)	Fe(8)	O(29)	101.5(2)
O(34)	Fe(8)	O(29)	95.8(2)
O(20)	Fe(8)	O(22)	93.9(2)
O(34)	Fe(8)	O(22)	169.88(19)
O(29)	Fe(8)	O(22)	92.2(2)
O(20)	Fe(8)	O(19)	81.44(18)
O(34)	Fe(8)	O(19)	91.40(19)
O(29)	Fe(8)	O(19)	172.2(2)
O(22)	Fe(8)	O(19)	80.39(19)
O(20)	Fe(8)	O(26)	167.62(19)
O(34)	Fe(8)	O(26)	88.1(2)
O(29)	Fe(8)	O(26)	90.9(2)
O(22)	Fe(8)	O(26)	85.5(2)
O(19)	Fe(8)	O(26)	86.26(18)
O(33)	Fe(9)	O(24)	94.2(2)
O(33)	Fe(9)	O(34)	166.35(19)
O(24)	Fe(9)	O(34)	99.4(2)
O(33)	Fe(9)	O(36)	94.3(2)
O(24)	Fe(9)	O(36)	92.77(19)
O(34)	Fe(9)	O(36)	86.5(2)
O(33)	Fe(9)	O(31)	87.5(2)
O(24)	Fe(9)	O(31)	90.83(19)
O(34)	Fe(9)	O(31)	90.8(2)
O(36)	Fe(9)	O(31)	175.8(2)
O(33)	Fe(9)	N(7)	85.9(2)
O(24)	Fe(9)	N(7)	179.9(3)
O(34)	Fe(9)	N(7)	80.5(2)
O(36)	Fe(9)	N(7)	87.2(2)
O(31)	Fe(9)	N(7)	89.2(2)
O(20)	Fe(10)	O(35)	100.9(2)
O(20)	Fe(10)	O(36)	95.1(2)
O(35)	Fe(10)	O(36)	163.4(2)
O(20)	Fe(10)	O(28)	95.3(2)
O(35)	Fe(10)	O(28)	87.9(2)
O(36)	Fe(10)	O(28)	86.0(2)
O(20)	Fe(10)	O(30)	93.7(2)
O(35)	Fe(10)	O(30)	89.6(2)
O(36)	Fe(10)	O(30)	94.0(2)
O(28)	Fe(10)	O(30)	170.9(2)
O(20)	Fe(10)	N(8)	173.1(2)
O(35)	Fe(10)	N(8)	85.1(2)
O(36)	Fe(10)	N(8)	79.3(2)
O(28)	Fe(10)	N(8)	88.4(2)
O(30)	Fe(10)	N(8)	82.7(2)

Table S7. Selected Interatomic Distances (Å) and Angles (deg) for **9**·1.5H_2O·2CH_2Cl_2·0.5C_2H_4O

Fe(1)	Fe(2)	3.057(2)		Fe(3)	O(2)	1.881(4)	
Fe(1)	Fe(4)	3.219(2)		Fe(3)	O(9)	1.920(4)	
Fe(2)	Fe(3)	3.347(2)		Fe(3)	O(10)	2.021(4)	
Fe(2)	Fe(4)	3.007(2)		Fe(3)	O(17)	2.088(4)	
Fe(2)	Fe(5)	3.592(2)		Fe(3)	O(8)	2.117(4)	
Fe(3)	Fe(4)	3.388(2)		Fe(3)	N(2)	2.133(5)	
Fe(3)	Fe(5)	3.538(2)		Fe(4)	O(2)	1.914(4)	
Fe(4)	Fe(5)	3.532(2)		Fe(4)	O(18)	1.983(4)	
Fe(1)	O(3)	1.880(4)		Fe(4)	O(12)	1.990(3)	
Fe(1)	O(4)	1.992(4)		Fe(4)	O(11)	2.027(4)	
Fe(1)	O(1)	2.020(3)		Fe(4)	O(1)	2.053(4)	
Fe(1)	O(5)	2.061(4)		Fe(4)	N(3)	2.135(4)	
Fe(1)	O(11)	2.111(4)		Fe(5)	O(14)	1.923(4)	
Fe(1)	N(1)	2.118(4)		Fe(5)	O(12)	2.003(3)	
Fe(2)	O(2)	1.925(4)		Fe(5)	O(10)	2.012(4)	
Fe(2)	O(7)	1.977(4)		Fe(5)	O(13)	2.046(4)	
Fe(2)	O(13)	1.981(4)		Fe(5)	O(15)	2.051(4)	
Fe(2)	O(4)	2.015(4)		Fe(5)	N(4)	2.145(4)	
Fe(2)	O(6)	2.074(4)					
Fe(2)	O(1)	2.103(3)					
Fe(1)	O(4)	Fe(2)	99.45(15)	O(2)	Fe(2)	O(7)	100.39(16)
Fe(5)	O(10)	Fe(3)	122.64(18)	O(2)	Fe(2)	O(13)	90.47(15)
Fe(4)	O(11)	Fe(1)	102.12(15)	O(7)	Fe(2)	O(13)	97.26(15)
Fe(4)	O(12)	Fe(5)	124.41(19)	O(2)	Fe(2)	O(4)	91.90(16)
Fe(2)	O(13)	Fe(5)	126.20(18)	O(7)	Fe(2)	O(4)	92.88(15)
Fe(3)	O(2)	Fe(4)	126.4(2)	O(13)	Fe(2)	O(4)	168.99(15)
Fe(3)	O(2)	Fe(2)	123.11(18)	O(2)	Fe(2)	O(6)	167.54(15)
Fe(4)	O(2)	Fe(2)	103.12(17)	O(7)	Fe(2)	O(6)	92.06(16)
Fe(1)	O(1)	Fe(4)	104.42(15)	O(13)	Fe(2)	O(6)	88.43(15)
Fe(1)	O(1)	Fe(2)	95.69(14)	O(4)	Fe(2)	O(6)	86.94(15)
Fe(4)	O(1)	Fe(2)	92.67(14)	O(2)	Fe(2)	O(1)	81.31(15)
O(3)	Fe(1)	O(4)	164.60(15)	O(7)	Fe(2)	O(1)	172.63(15)
O(3)	Fe(1)	O(1)	112.79(15)	O(13)	Fe(2)	O(1)	89.88(14)
O(4)	Fe(1)	O(1)	82.46(14)	O(4)	Fe(2)	O(1)	79.86(14)
O(3)	Fe(1)	O(5)	92.26(16)	O(6)	Fe(2)	O(1)	86.27(15)
O(4)	Fe(1)	O(5)	91.30(15)	O(2)	Fe(3)	O(9)	99.06(17)
O(1)	Fe(1)	O(5)	84.64(14)	O(2)	Fe(3)	O(10)	96.05(15)
O(3)	Fe(1)	O(11)	93.29(16)	O(9)	Fe(3)	O(10)	164.02(16)
O(4)	Fe(1)	O(11)	88.37(15)	O(2)	Fe(3)	O(17)	94.44(16)
O(1)	Fe(1)	O(11)	75.62(14)	O(9)	Fe(3)	O(17)	93.47(18)
O(5)	Fe(1)	O(11)	160.14(14)	O(10)	Fe(3)	O(17)	90.53(16)
O(3)	Fe(1)	N(1)	86.19(16)	O(2)	Fe(3)	O(8)	95.30(16)
O(4)	Fe(1)	N(1)	78.45(16)	O(9)	Fe(3)	O(8)	86.97(18)
O(1)	Fe(1)	N(1)	160.62(15)	O(10)	Fe(3)	O(8)	86.46(16)
O(5)	Fe(1)	N(1)	99.05(16)	O(17)	Fe(3)	O(8)	170.06(16)
O(11)	Fe(1)	N(1)	100.34(16)	O(2)	Fe(3)	N(2)	176.05(16)

O(9)	Fe(3)	N(2)	84.88(17)
O(10)	Fe(3)	N(2)	80.00(16)
O(17)	Fe(3)	N(2)	85.62(18)
O(8)	Fe(3)	N(2)	84.52(17)
O(2)	Fe(4)	O(18)	97.20(16)
O(2)	Fe(4)	O(12)	91.05(15)
O(18)	Fe(4)	O(12)	93.80(16)
O(2)	Fe(4)	O(11)	103.09(15)
O(18)	Fe(4)	O(11)	95.55(15)
O(12)	Fe(4)	O(11)	161.89(15)
O(2)	Fe(4)	O(1)	82.90(15)
O(18)	Fe(4)	O(1)	172.08(15)
O(12)	Fe(4)	O(1)	94.12(14)
O(11)	Fe(4)	O(1)	76.76(14)
O(2)	Fe(4)	N(3)	169.56(15)
O(18)	Fe(4)	N(3)	90.30(17)
O(12)	Fe(4)	N(3)	81.17(16)
O(11)	Fe(4)	N(3)	83.31(16)
O(1)	Fe(4)	N(3)	90.68(16)
O(14)	Fe(5)	O(12)	94.93(16)
O(14)	Fe(5)	O(10)	92.80(16)
O(12)	Fe(5)	O(10)	89.24(15)
O(14)	Fe(5)	O(13)	162.31(15)
O(12)	Fe(5)	O(13)	102.55(15)
O(10)	Fe(5)	O(13)	90.15(15)
O(14)	Fe(5)	O(15)	88.33(16)
O(12)	Fe(5)	O(15)	87.90(14)
O(10)	Fe(5)	O(15)	177.01(14)
O(13)	Fe(5)	O(15)	89.61(15)
O(14)	Fe(5)	N(4)	83.71(17)
O(12)	Fe(5)	N(4)	174.14(16)
O(10)	Fe(5)	N(4)	96.51(16)
O(13)	Fe(5)	N(4)	78.62(16)
O(15)	Fe(5)	N(4)	86.37(16)

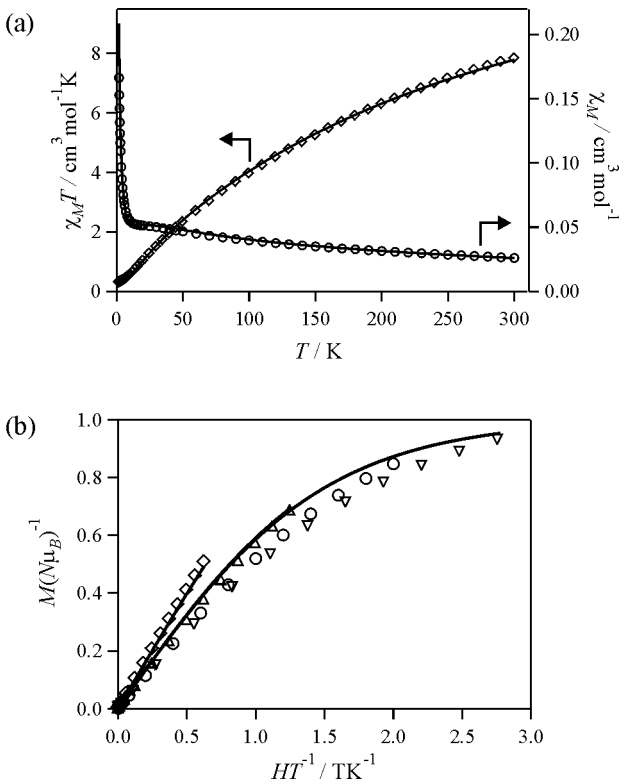

Figure S1. Plot of magnetic data for **4**: (a) $\chi_M T$ (◇) and χ_M (○) vs T and (b) $M(N\mu_B)^{-1}$ vs HT^{-1} at 1.8 (▽), 2.5 (○), 4 (△) and 8 K (◇). The solid lines are fits or simulations as described in the text.

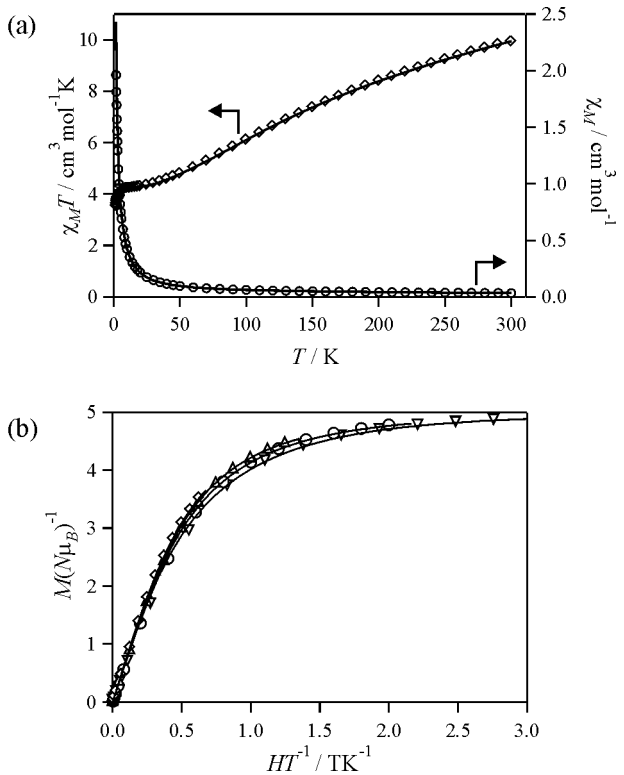

Figure S2. Plot of magnetic data for **7**: (a) $\chi_M T$ (◇) and χ_M (○) vs T and (b) $M(N\mu_B)^{-1}$ vs HT^{-1} at 1.8 (▽), 2.5 (○), 4 (△) and 8 K (◇). The solid lines are fits or simulations as described in the text.

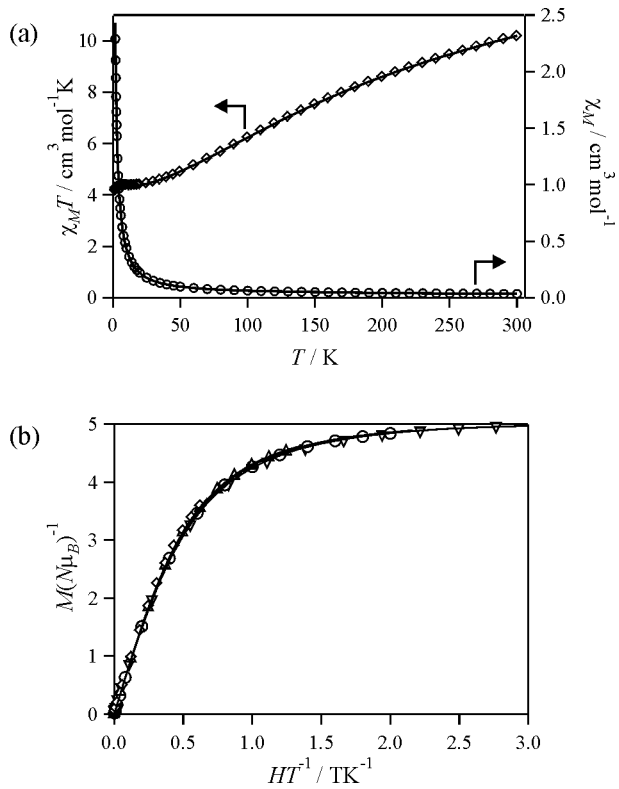

Figure S3. Plot of magnetic data for **9**·2H_2O: (a) $\chi_M T$ (◇) and χ_M (○) vs T and (b) $M(N\mu_B)^{-1}$ vs HT^{-1} at 1.8 (▽), 2.5 (○), 4 (△) and 8 K (◇). The solid lines are fits or simulations as described in the text.

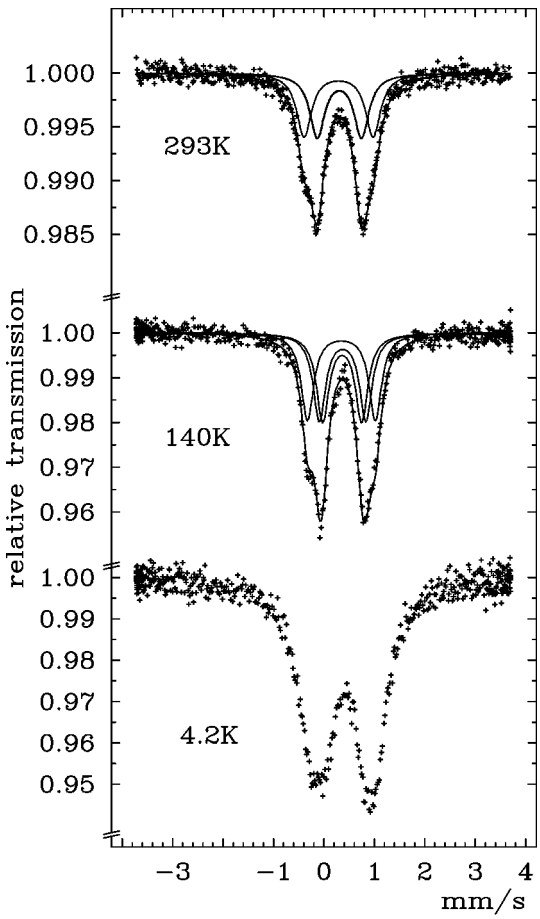

Figure S4. Variable temperature Mössbauer spectra for **4**. The solid lines are the fits as described in the text.

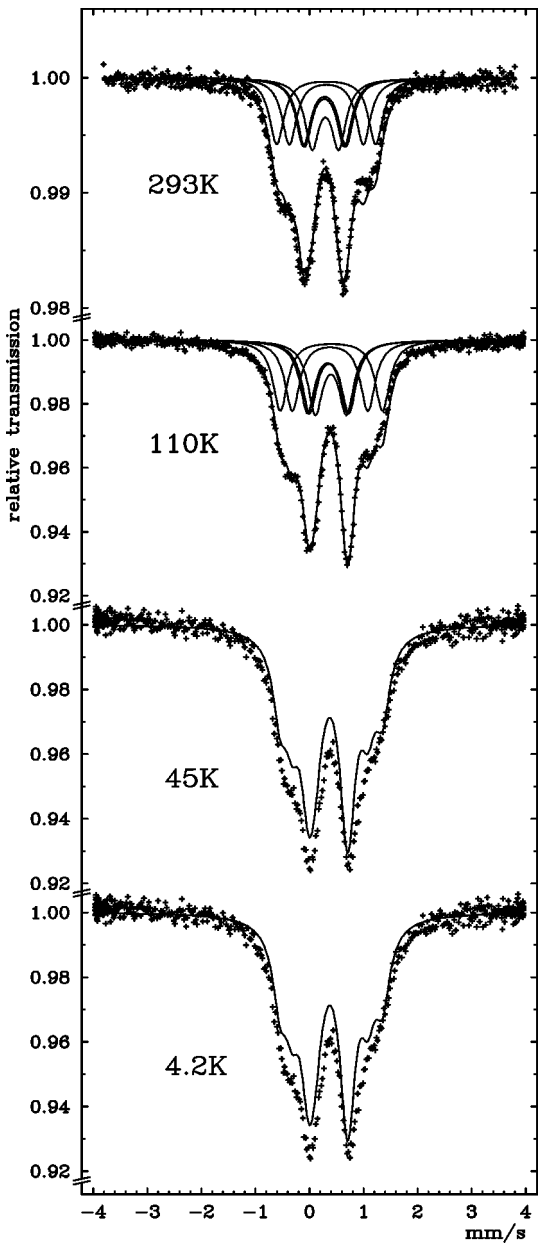

Figure S5. Variable temperature Mössbauer spectra for **7**. For temperatures above 100 K the solid lines are the fits as described in the text. For the lower temperatures the solid lines correspond to the theoretical spectra derived from the fitting parameters for the 110 K data.