

Fig.S1 The IR spectrum for compound 1

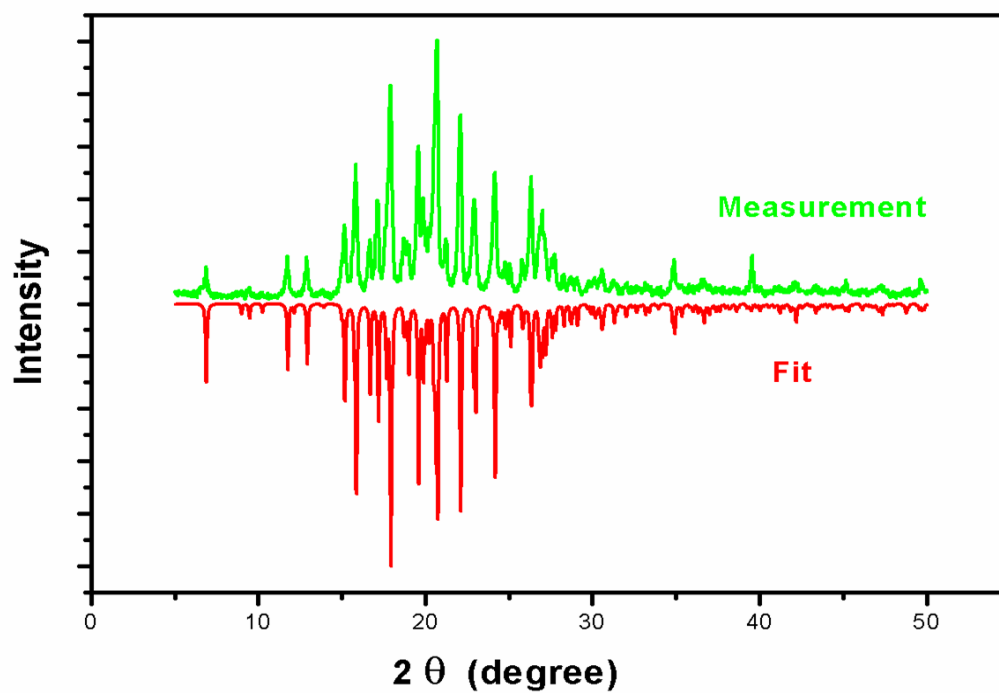


Fig.S2 The powder X-ray diffraction (PXRD) pattern for compound 1

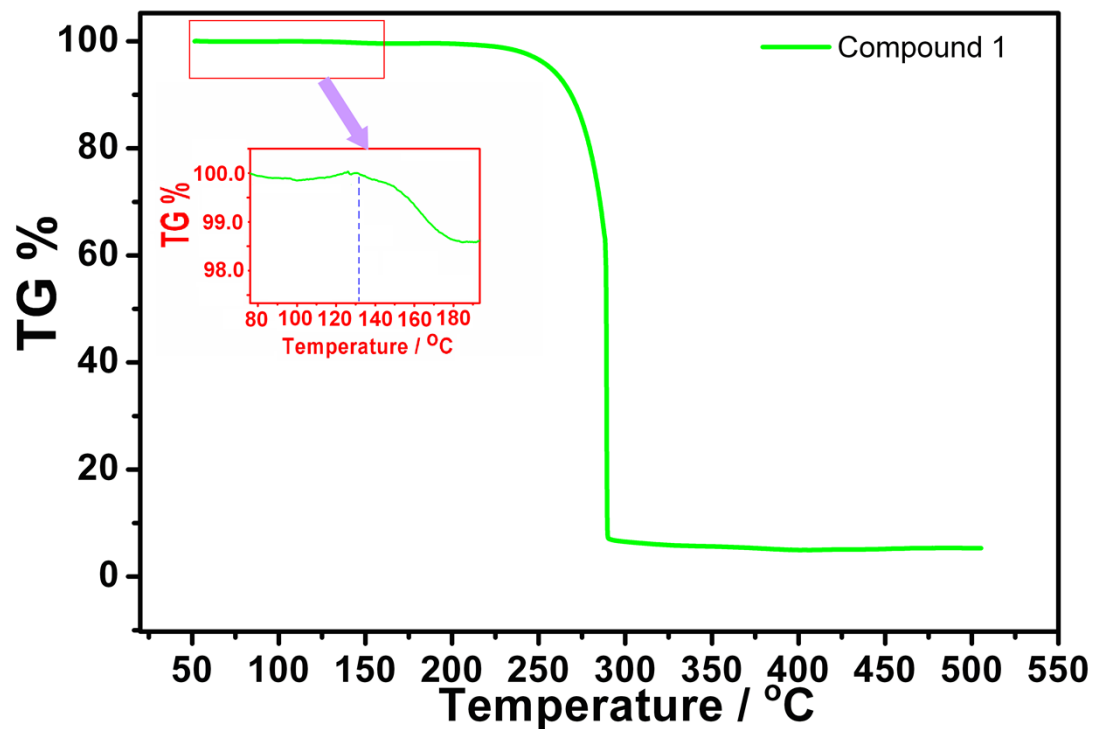


Fig.S3 Thermogravimetric(TG) measurements of compound 1 in N2 atmosphere.

Structure refinement:

The restraints (SIMU, DELU and FREE) were used to improve the quality of the refinements of the two structures.

For 293k: simu o11 c12 o10, delu o11 c12 o10, free c11 c11', free c6 c6'.

For 383k: dfix 1.45 c12 o11, simu c12 o12 o13 o14 o3 c6 c6' c3, delu o3 c6 c6' c3, free c11 c11', free c6 c6'.

Table S1 Selected structural data for 1 under 293K

<i>Bond lengths / Å and bond angles / °</i>				
Cl(1)-O(7)	1.399(4)	Cl(2)-O(11)	1.194(5)	
Cl(1)-O(7)#2	1.399(4)	Cl(2)-O(13)	1.255(1)	
Cl(1)-O(10)	1.419(7)	Cl(2)-O(13)#1	1.255(1)	
Cl(1)-O(9)	1.425(6)	Cl(2)-O(12)	1.361(1)	
O(7)-Cl(1)-O(7)#2	110.1(5)	O(11)-Cl(2)-O(13)	118.6(9)	
O(7)-Cl(1)-O(10)	109.8(3)	O(11)-Cl(2)-O(13)#1	118.6(9)	
O(7)#2-Cl(1)-O(10)	109.8(3)	O(13)-Cl(2)-O(13)#1	109.4(1)	
O(7)-Cl(1)-O(9)	109.3(3)	O(11)-Cl(2)-O(12)	97.4(1)	
O(7)#2-Cl(1)-O(9)	109.3(3)	O(13)-Cl(2)-O(12)	105.1(1)	
O(10)-Cl(1)-O(9)	108.6(5)	O(13)#1-Cl(2)-O(12)	105.1(1)	

<i>Hydrogen bonds / Å and °</i>				
D-H···A	d(D-H)	d(H···A)	d(D···A)	<(DHA)
N(1)-H(1C)...O(2)#3	0.91	2.12	2.95(2)	151(2)
N(1)-H(1C)...O(1)#3	0.91	2.23	2.90(1)	130(5)
N(1)-H(1E)...O(3)#3	0.92	2.16	2.88(3)	135(3)
N(1)-H(1E)...O(3)#4	0.92	2.16	2.88(3)	135(3)
N(2)-H(2D)...O(10)#5	0.92	2.19	3.09(1)	168(4)
N(2)-H(2C)...O(12)	0.91	2.55	3.44(3)	163(1)
O(1W)-H(1WB)...O(2)	0.86	2.33	3.10 (2)	151(3)

Symmetry transformations used to generate equivalent atoms: #1 x, -y+1/2, z
#2 x, -y+3/2, z; #3 x, -y+1/2, z+1; #4 x, y, z+1; #5 2-x, -1/2 + y, 1-z

Table S2 Selected structural data for 1 under 368k

Bond lengths / Å and bond angles / °

Cl(1)-O(7)	1.409(2)	Cl(1)-O(7)#2	1.409 (2)
Cl(1)-O(10)	1.421(3)	Cl(1)-O(9)	1.430(3)
Cl(2)-O(16)	1.385(8)	Cl(2)-O(13)	1.378(4)
Cl(2)-O(13)#1	1.378(4)	Cl(2)-O(14)	1.271(4)
Cl(2)-O(15)#1	1.376(1)	Cl(2)-O(11)	1.432(6)
Cl(2)-O(15)	1.376(1)	Cl(2)-O(12)	1.508(9)
Cl(2)-O(17)	1.444(2)		
O(7)-Cl(1)-O(7)#2	109.79(19)	O(7)-Cl(1)-O(10)	108.8(3)
O(7)#2-Cl(1)-O(10)	108.82(13)	O(7)-Cl(1)-O(9)	109.8(1)
O(7)#2-Cl(1)-O(9)	109.89(10)	O(10)-Cl(1)-O(9)	109.6(2)
O(14)-Cl(2)-O(13)	69.3(2)	O(14)-Cl(2)-O(13)#1	69.3(2) O(13)-
Cl(2)-O(13)#1	111.5(4)	O(14)-Cl(2)-O(15)#1	117.3(5) O(13)-
Cl(2)-O(15)#1	170.2(5)	O(13)#1-Cl(2)-O(15)#1	78.2(5) O(14)-
Cl(2)-O(15)	117.3(5)	O(13)-Cl(2)-O(15)	78.2(5)
O(13)#1-Cl(2)-O(15)	170.2(5)	O(15)#1-Cl(2)-O(15)	92.1(9)
O(14)-Cl(2)-O(16)	178.2(4)	O(13)-Cl(2)-O(16)	111.6(3)
O(13)#1-Cl(2)-O(16)	111.6(3)	O(15)#1-Cl(2)-O(16)	61.6(5)
O(15)-Cl(2)-O(16)	61.6(5)	O(14)-Cl(2)-O(11)	94.9(4)
O(13)-Cl(2)-O(11)	117.8(2)	O(13)#1-Cl(2)-O(11)	117.8(2)
O(15)#1-Cl(2)-O(11)	56.1(5)	O(15)-Cl(2)-O(11)	56.1(5)
O(16)-Cl(2)-O(11)	83.3(5)	O(14)-Cl(2)-O(17)	58.1(7)
O(13)-Cl(2)-O(17)	100.6(4)	O(13)#1-Cl(2)-O(17)	100.6(4)
O(15)#1-Cl(2)-O(17)	78.5(7)	O(15)-Cl(2)-O(17)	78.5(7)
O(16)-Cl(2)-O(17)	120.1(8)	O(11)-Cl(2)-O(17)	36.8(7)
O(14)-Cl(2)-O(12)	136.0(4)	O(13)-Cl(2)-O(12)	87.1(3)
O(13)#1-Cl(2)-O(12)	87.1(3)	O(15)#1-Cl(2)-O(12)	91.9(6)
O(15)-Cl(2)-O(12)	91.9(6)	O(16)-Cl(2)-O(12)	45.9(5)

O(11)-Cl(2)-O(12)	129.1(5)	O(17)-Cl(2)-O(12)	166.0(8)
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Hydrogen bonds / Å and °

D-H...A	d(D-H)	d(H...A)	d(D...A)	<(DHA)
N(1)-H(1C)...O(2)#3	0.92	2.14	2.97(2)	151(3)
N(1)-H(1C)...O(1)#3	0.92	2.22	2.90(1)	130(3)
N(1)-H(1E)...O(3)#3	0.92	2.19	2.91(2)	135(2)
O(1W)-H(1WB)...O(2)	0.86	3.07	3.591(1)	121(1)
N(2)-H(2C)...O(15)#1	0.92	2.21	3.05 (3)	151(3)
N(2)-H(2D)...O(10)#5	0.93	2.21	3.13(5)	168(3)
N(2)-H(2C)...O(11)	0.92	2.08	2.86(1)	143(5)
N(2)-H(2C)...O(16)	0.92	2.12	3.01(1)	165(5)

Symmetry transformations used to generate equivalent atoms: #1 x, -y+1/2, z
 #2 x, -y+3/2, z; #3 x, -y+1/2, z+1; #4 x, y, z+1; #5 2-x, -1/2 + y, 1-z