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Table S1 - Geometrical parameters for the weak C-H···O interactions.

D*-H···*A	***D*-H (Å)**	**H···*A* (Å)**	***D*-*A* (Å)**	***D*-H-*A* (°)**
200 K				
C2-H2A···O3[1]	0.95	2.78	3.714(2)	167.2
C9-H9···O3[1]	0.95	2.55	3.466(2)	161.1
C12-H12···O1[2]	0.95	2.79	3.720(2)	166.7
C19-H19···O1[2]	0.95	2.64	3.561(2)	164.6
145 K				
C2-H2A···O3[1]	0.95	2.76	3.697(2)	167.8
C9-H9···O3[1]	0.95	2.55	3.465(2)	162.4
C12-H12···O1[2]	0.95	2.77	3.699(2)	166.9
C19-H19···O1[2]	0.95	2.63	3.549(2)	163.4
120 K				
C2-H2A···O3[3]	0.95	2.74	3.670(4)	166.5
C9-H9···O3[3]	0.95	2.65	3.559(4)	161.2
C12-H12A···O1[4]	0.95	2.75	3.688(4)	167.4
C15-H15···O1[4]	0.95	2.55	3.479(4)	165.0
C22-H22···O7[3]	0.95	2.76	3.702(4)	170.3
C29-H29···O7[3]	0.95	2.56	3.499(4)	169.8
C32-H32···O5[4]	0.95	2.76	3.694(4)	168.1
C35-H35···O5[4]	0.95	2.68	3.589(4)	160.4
C42-H42···O11[3]	0.95	2.72	3.662(4)	174.3
C49-H49···O11[3]	0.95	2.62	3.564(4)	172.9
C52-H52···O9[4]	0.95	2.72	3.651(4)	168.1
C55-H55···O9[4]	0.95	2.57	3.487(4)	161.4
C62-H62···O15[5]	0.95	2.74	3.684(4)	174.3
C65-H65···O15[5]	0.95	2.65	3.600(4)	176.4
C72-H72···O13[6]	0.95	2.73	3.663(4)	167.2
C79-H79···O13[6]	0.95	2.55	3.473(4)	163.4

[1]= x-1,y,z-1, [2]= x+1,y,z+1, [3]= x,y+1,z, [4]= x,y-1,z, [5]= x,y-1,z+1, [6]= x,y+1,z-1

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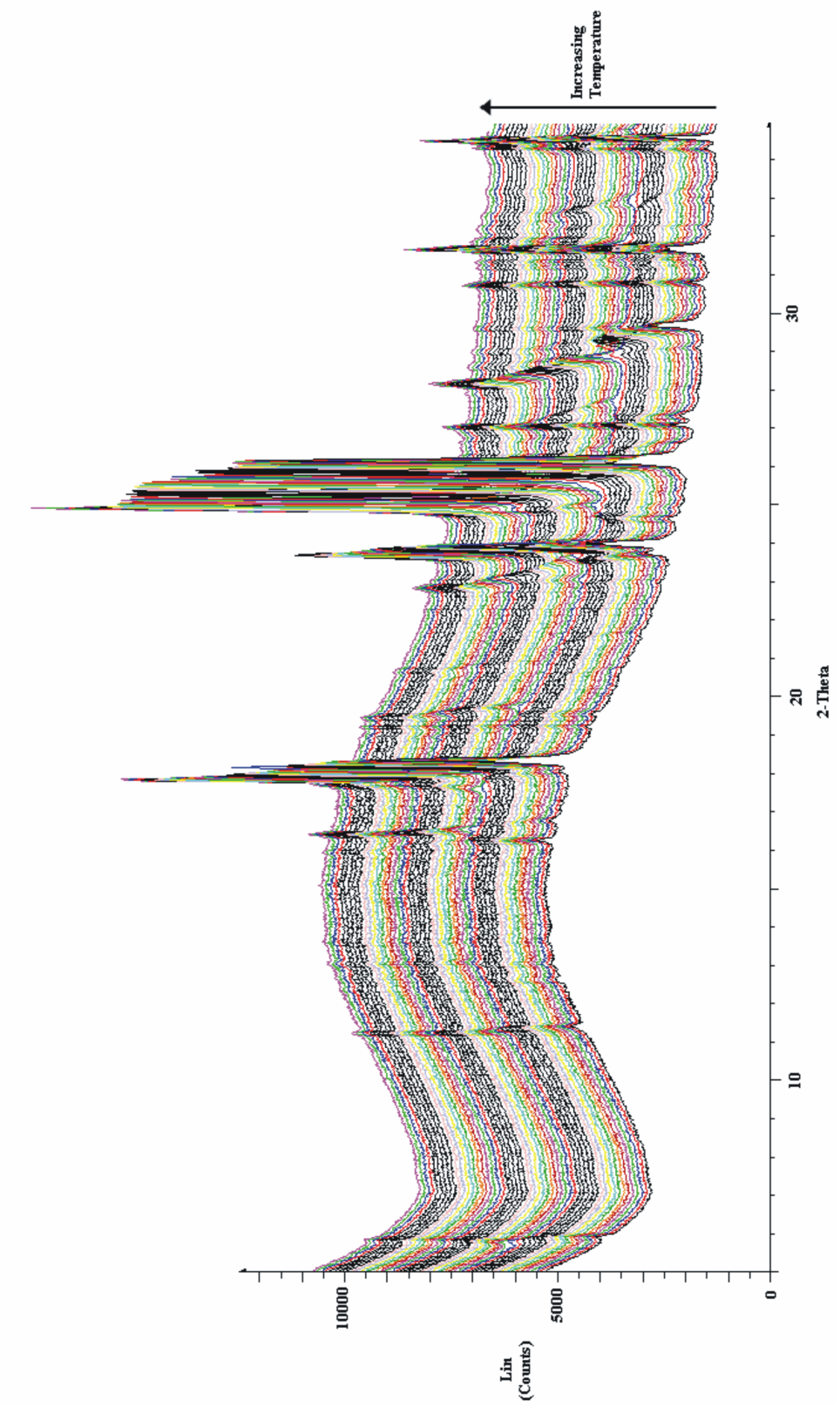

Figure S1 - Variable temperature powder X-ray diffraction scans16 -300 K.

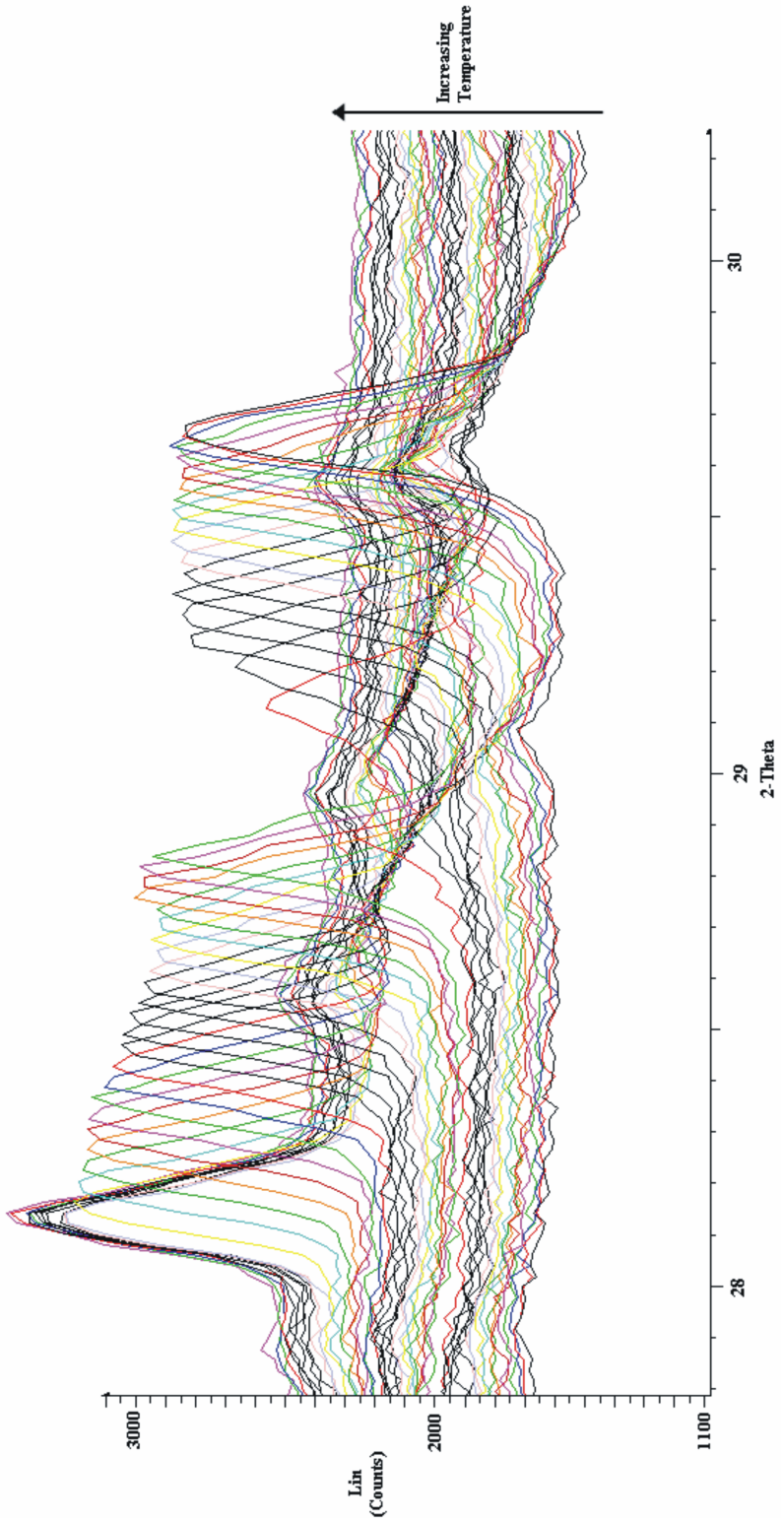

Figure S2 - Variable temperature powder X-ray diffraction data 2θ = 28-30° recorded over the temperature range 16-300 K. The transition is clearly evident.