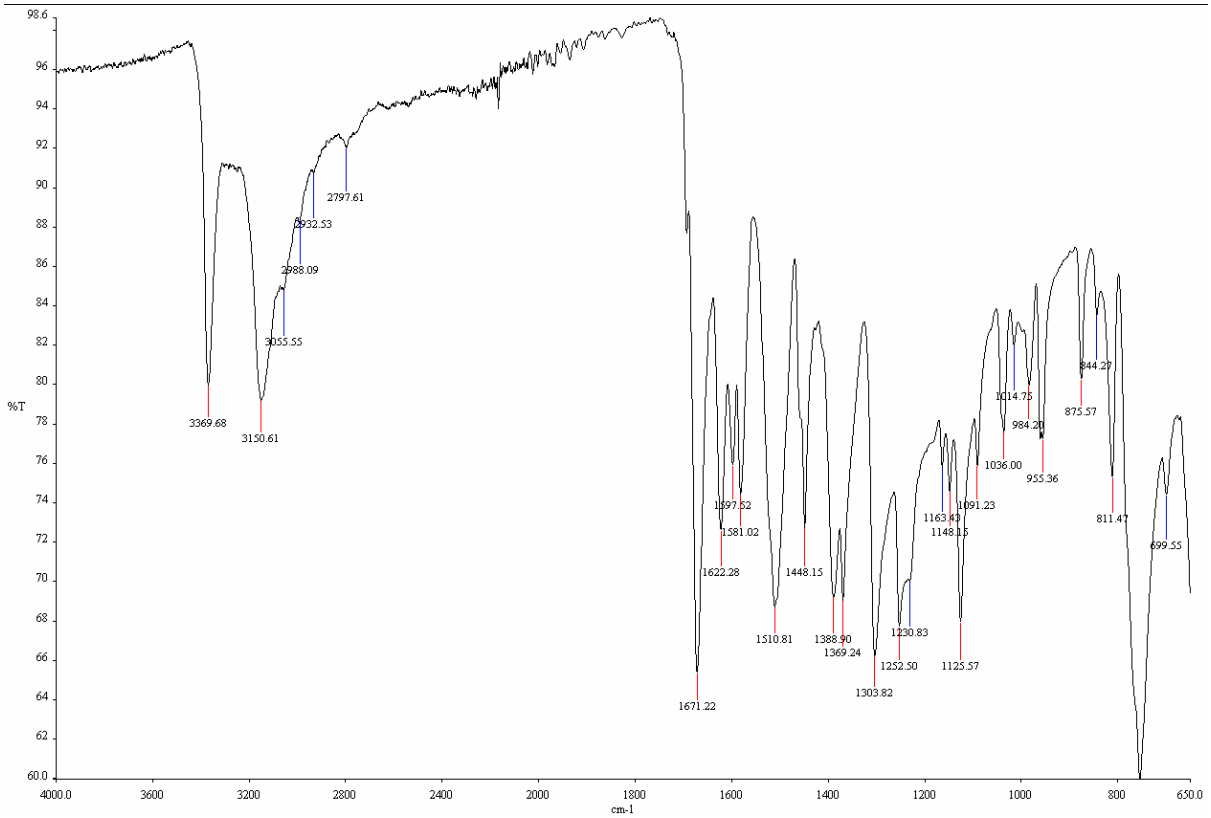
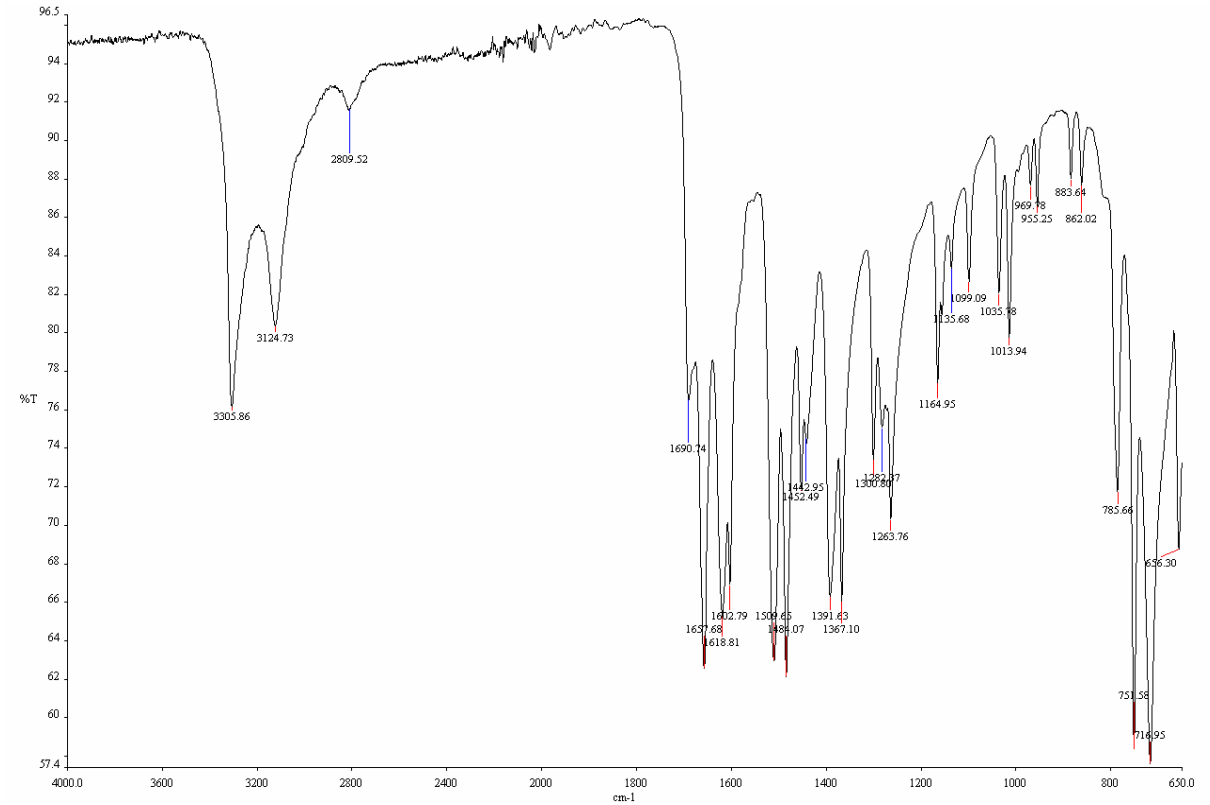
Electronic Supplementary Material for CrystEngComm

The solvates of *o*-acetamidobenzamide

IR spectra collected using a PerkinElmer Spectrum One FT-IR ATR (diamond substrate) spectrometer over the range 650-4000 cm^{-1} for crystals of the two polymorphs of AABA.

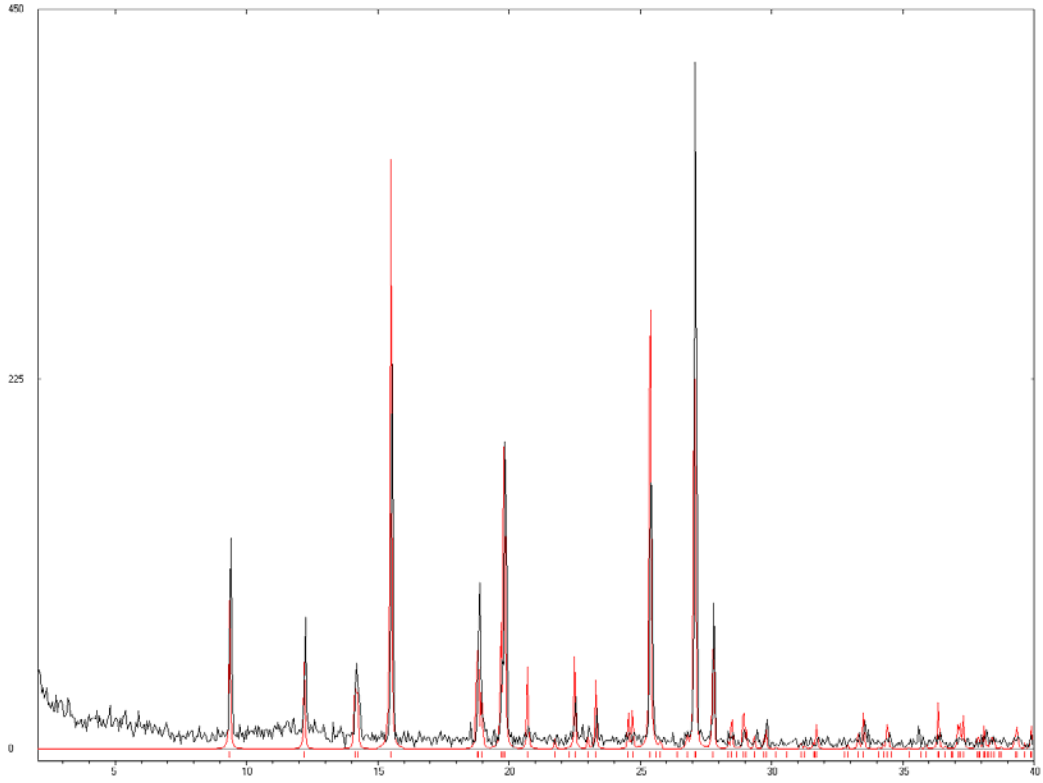


The IR spectrum observed for the α-form of AABA

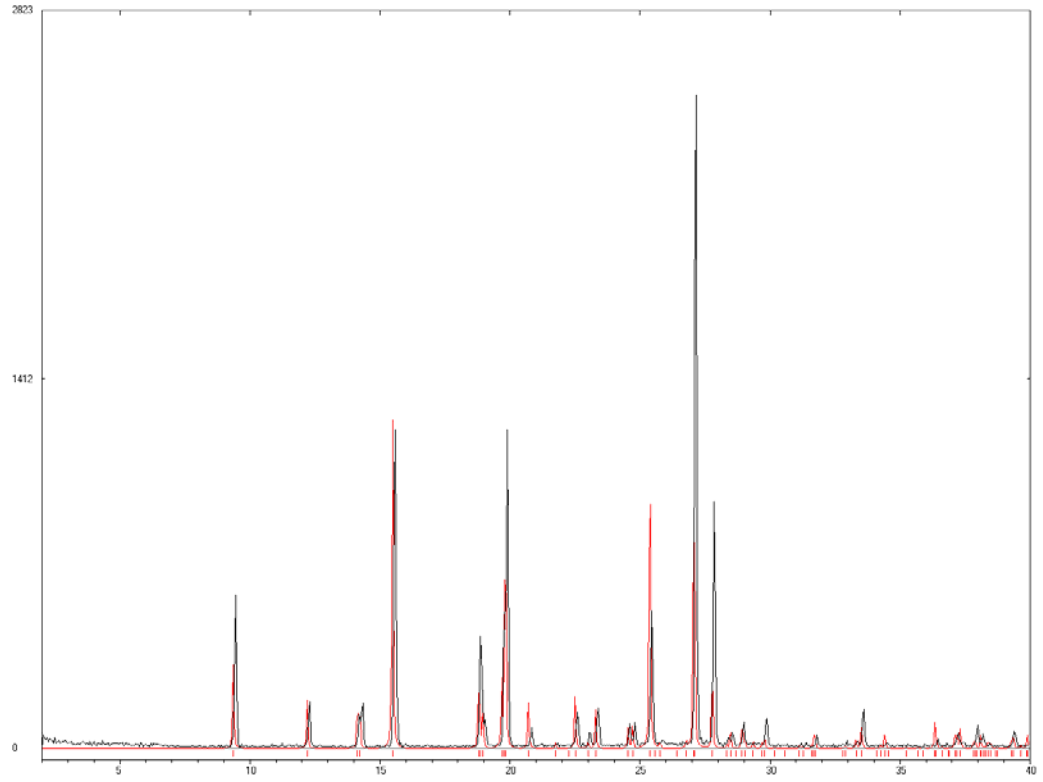


The IR spectrum observed for the β-form of AABA

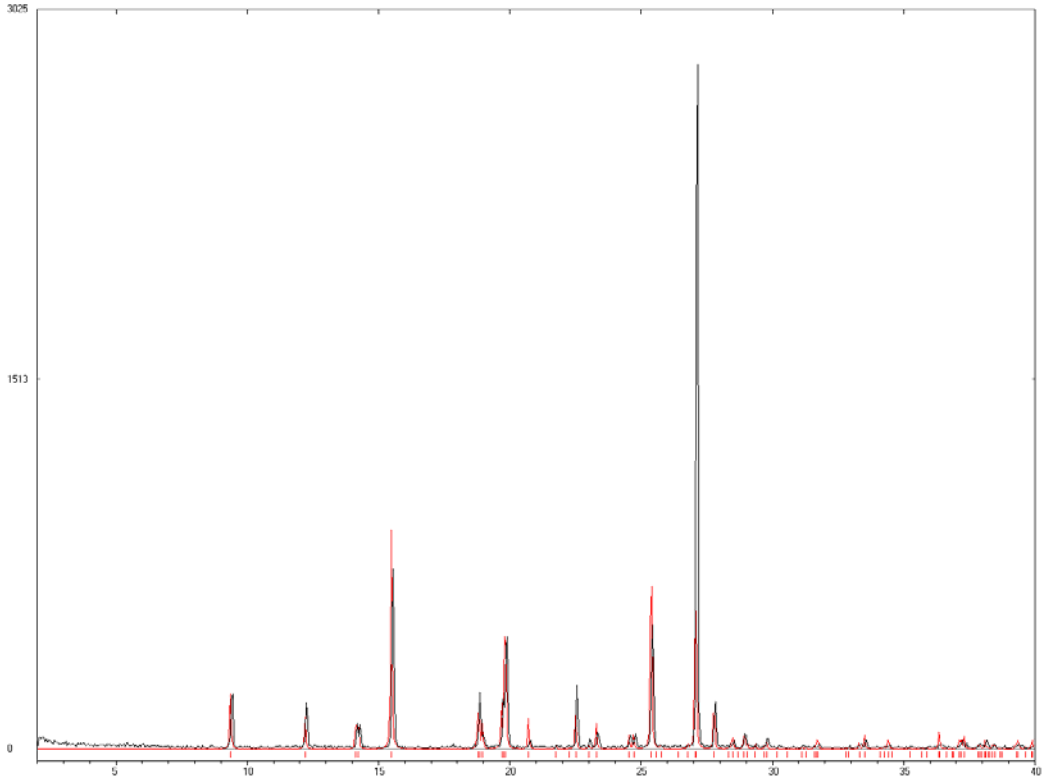
Powder patterns for the other samples



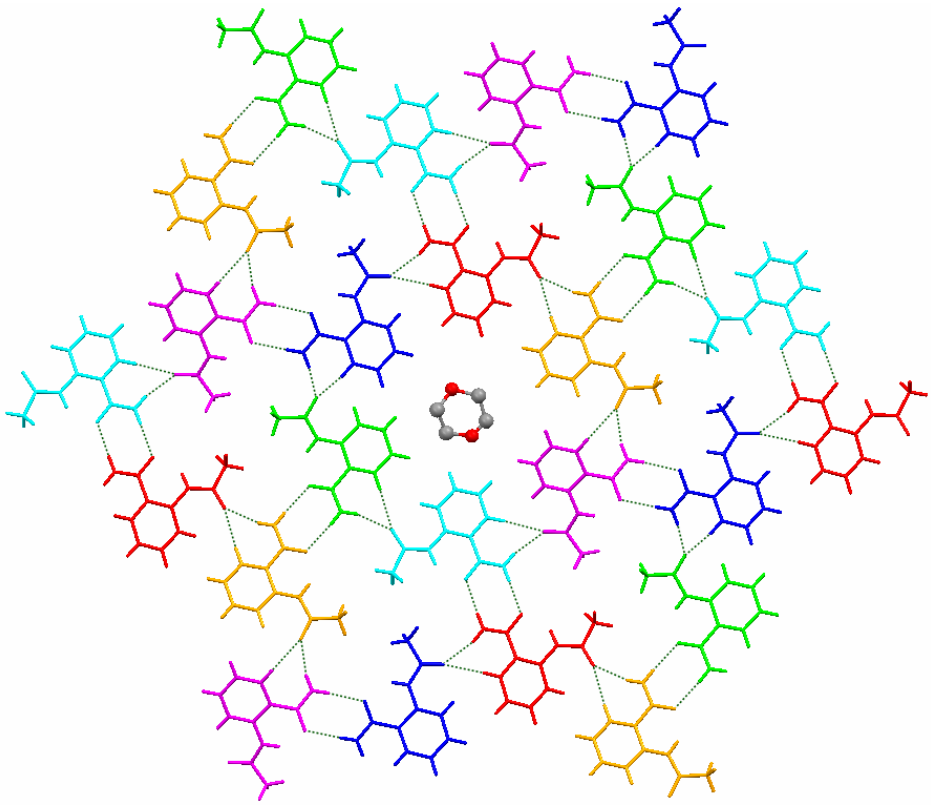
The observed powder pattern for the decomposition of [$(AABA)_6$(1-PrOH)] (black line) compared with the calculated pattern for the α-form of AABA (red line).



The observed powder pattern for the decomposition of [$(AABA)_6$(1-BuOH)] (black line) compared with the calculated pattern for the α-form of AABA (red line).



The observed powder pattern for the decomposition of [$(AABA)_6$(Diox)] (black line) compared with the calculated pattern for the α-form of AABA (red line).



Part of the sheet formed by [$(AABA)_6$.Dioxane] showing the hydrogen-bonding interactions.

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Hydrogen-bonding interactions for [$(AABA)_6$.Dioxane].

	D-H/Å	D-H···A/Å	D···A/Å	D-H···A/°
N2–H2A···O1	0.88	1.97	2.645(7)	132.9
N12–H12A···O11	0.88	1.93	2.657(7)	139.1
N22–H22A···O21	0.88	1.97	2.635(9)	131.5
N32–H32A···O31	0.88	1.93	2.654(7)	138.3
N42–H42A···O41	0.88	1.90	2.630(6)	139.6
N52–H52A···O51	0.88	1.89	2.628(9)	140.3
N1–H1A···O31	0.88	2.09	2.964(7)	176.1
N1–H1B···O52^{vii}	0.88	2.15	3.002(9)	163.9
C3–H3A···O52^{vii}	0.95	2.39	3.336(11)	172.0
N11–H11A···O41^{viii}	0.88	2.05	2.929(8)	177.0
N11–H11B···O2^{ix}	0.88	2.05	2.896(9)	161.7
C13–H13A···O2^{ix}	0.95	2.45	3.188(8)	134.8
N21–H21A···O51	0.88	2.06	2.944(9)	177.2
N21–H21B···O12^{x}	0.88	2.12	2.975(7)	164.6
C23–H23A···O12^{x}	0.95	2.48	3.308(9)	145.2
N31–H31A···O1	0.88	2.10	2.979(7)	172.3
N31–H31B···O22	0.88	2.09	2.951(9)	165.4
C33–H33A···O22	0.95	2.34	3.270(10)	167.4
N41–H41A···O11^{viii}	0.88	2.10	2.976(8)	175.3
N41–H41B···O32^{xi}	0.88	2.07	2.929(8)	163.8
C43–H43A···O32^{xi}	0.95	2.53	3.309(7)	139.6
N51–H51A···O21	0.88	2.04	2.925(9)	179.3
N51–H51B···O42^{xii}	0.88	2.13	2.987(7)	163.2
C53–H53A···O42^{xii}	0.95	2.35	3.300(10)	174.4

Symmetry operations for equivalent atoms

vii = $x-1, y-1, z$; viii = $-x+1, -y+1, -z+1$; ix = $x, y, z+1$; x = $x+1, y, z$; xi = $-x+1, -y, -z+1$; xii = $-x+1, -y+1, -z$.