Electronic Supplementary Material (ESI) for New Journal of Chemistry.

Supplementary materials

Clouding Behavior of Antidepressant Drug-Additive System in Ethylene Glycol/Glycerol-Water Mixed Media and their Thermodynamic Parameters at Cloud Point

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Fig. F1 Variation of cmc of AMT with the composition of EG-WR and GL-WR mixed media at 30 ^{0}C, pH = 6.7.

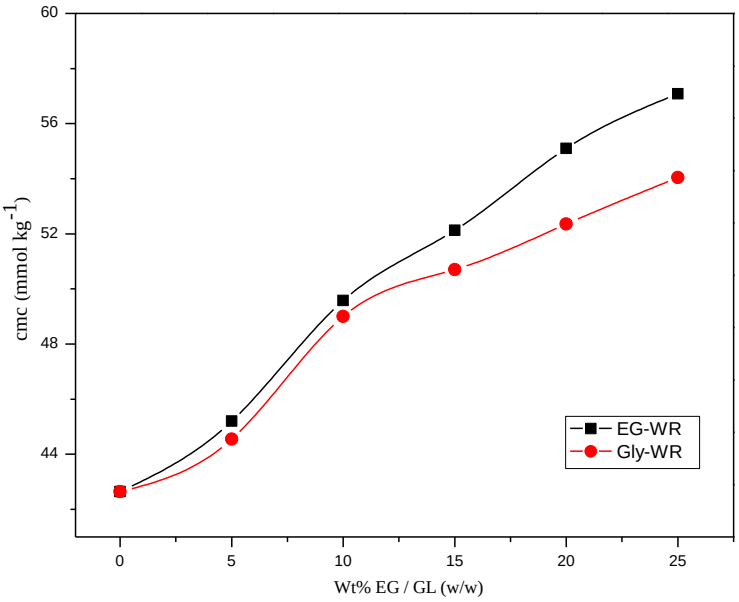

Fig. F2 Effect of cationic co-ions on the CP of 50 mmol kg^{-1} AMT drug solution in different wt % of GL-WR mixed media, pH = 6.7.

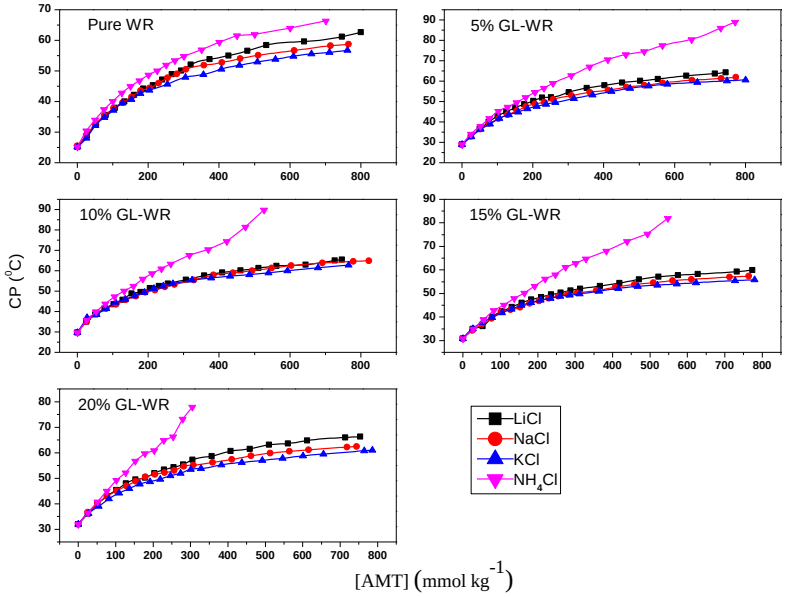

Fig. F3 Plots of CP of 50 mmol kg^{-1} AMT drug solution vs. [individual salt] in different compositions of EG-WR mixed media, pH=6.7.

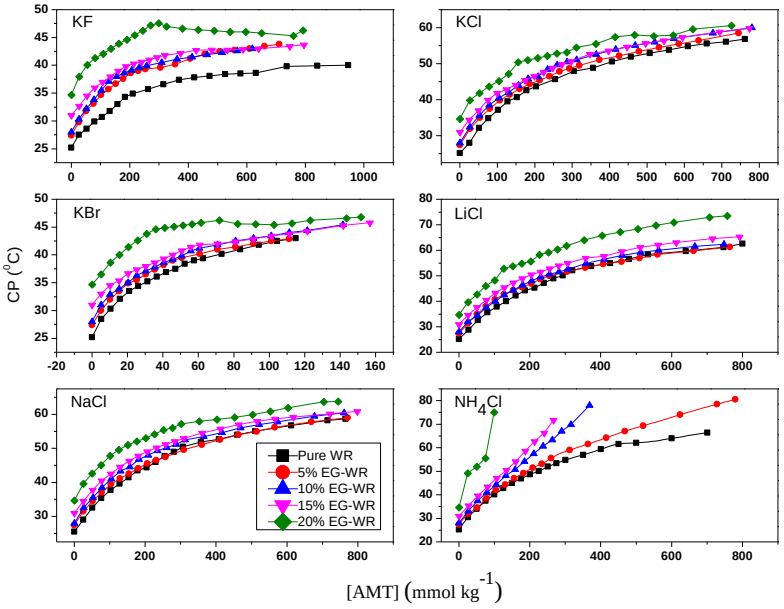

Fig. F4 Plots of Δ_sG^0/T vs. 1/T of 50 mmol kg^{-1} AMT in presence of salts at different compositions of GL-WR mixed media. The values of Δ_sH^0 were calculated from slopes of such plots.

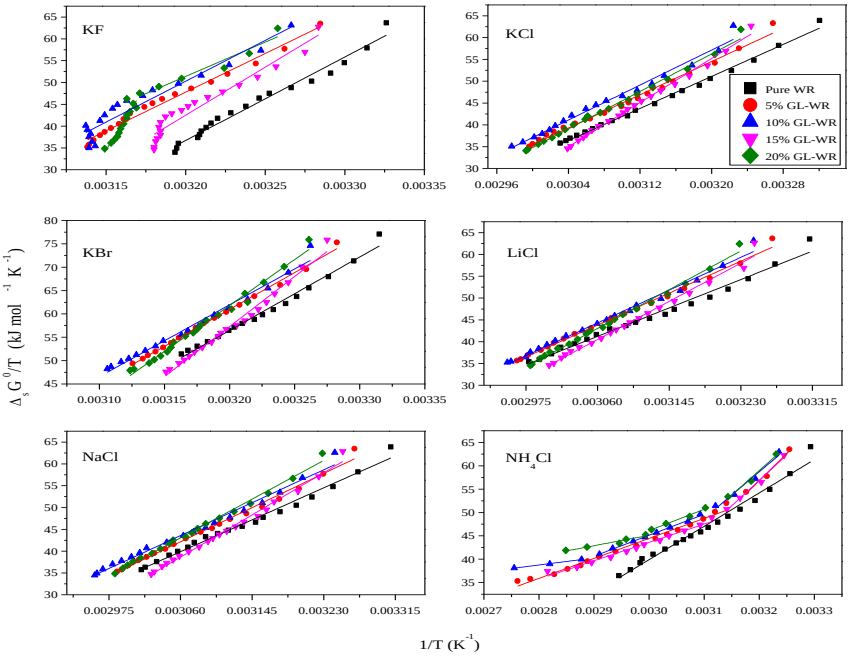

Table S1

Cloud point (CP) and energetic parameters ($\Delta_s G^0$, $\Delta_s H^0$ and $T\Delta_s S^0$) for clouding of 50 mmol kg^{-1} AMT prepared in WR in presence of additives, pH=6.7.

Mole fraction of additives (χ_s x 10^3)	**CP (K)**	**$\Delta_s G^0$ (kJ mol^{-1})**	**$\Delta_s H^0$ (kJ mol^{-1})**	**$T\Delta_s S^0$ (kJ mol^{-1})**	**Mole fraction of additives (χ_s x 10^3)**	**CP (K)**	**$\Delta_s G^0$ (kJ mol^{-1})**	**$\Delta_s H^0$ (kJ mol^{-1})**	**$T\Delta_s S^0$ (kJ mol^{-1})**
KF	R^2 = 0.978				**KCl**	R^2 = 0.995			
0.47	300.65	19.14	191.39	172.24	0.46	301.15	19.26	91.84	72.58
0.94	301.75	17.47	191.39	173.91	0.91	305.35	17.77	91.84	74.07
1.42	303.05	16.53	191.39	174.86	1.37	307.95	16.88	91.84	74.96
1.89	303.85	15.85	191.39	175.54	1.82	310.35	16.27	91.84	75.57
2.36	304.95	15.34	191.39	176.05	2.28	312.65	15.82	91.84	76.02
2.83	306.15	14.94	191.39	176.45	2.73	313.85	15.40	91.84	76.44
3.30	307.45	14.61	191.39	176.78	3.19	315.75	15.09	91.84	76.75
3.77	308.05	14.30	191.39	177.09	3.64	316.85	14.79	91.84	77.05
4.70	308.85	13.76	191.39	177.62	4.54	318.85	14.30	91.84	77.54
5.64	309.75	13.34	191.39	178.05	5.45	321.05	13.91	91.84	77.93
6.57	310.55	12.97	191.39	178.41	6.35	321.95	13.54	91.84	78.30
7.50	310.95	12.65	191.39	178.74	7.25	323.75	13.26	91.84	78.58
8.43	311.25	12.36	191.39	179.03	8.15	325.05	13.00	91.84	78.84
9.36	311.55	12.10	191.39	179.29	9.05	326.05	12.75	91.84	79.09
10.29	311.65	11.86	191.39	179.53	9.94	326.95	12.53	91.84	79.31
11.21	311.75	11.64	191.39	179.75	10.84	327.95	12.34	91.84	79.50
13.06	312.95	11.29	191.39	180.10	11.73	328.75	12.15	91.84	79.69
14.90	313.05	10.95	191.39	180.44	12.62	329.25	11.97	91.84	79.87
16.73	313.15	10.65	191.39	180.74	13.51	329.95	11.81	91.84	80.03
KBr	R^2 = 0.984				**LiCl**	R^2 = 0.982			
0.09	301.65	23.25	157.26	134.00	0.48	301.95	19.19	76.64	57.45
0.19	303.45	21.65	157.26	135.61	0.96	305.75	17.67	76.64	58.97
0.28	305.25	20.74	157.26	136.51	1.44	308.75	16.80	76.64	59.84
0.38	306.65	20.11	157.26	137.15	1.91	311.05	16.19	76.64	60.46
0.47	307.55	19.60	157.26	137.66	2.39	313.15	15.71	76.64	60.93
0.56	308.35	19.18	157.26	138.08	2.87	315.35	15.35	76.64	61.29
0.66	309.25	18.84	157.26	138.42	3.34	317.35	15.04	76.64	61.60
0.75	310.05	18.54	157.26	138.71	3.82	318.45	14.74	76.64	61.90
0.85	310.65	18.28	157.26	138.98	4.30	320.35	14.52	76.64	62.12
0.94	311.55	18.06	157.26	139.20	4.77	322.05	14.31	76.64	62.33
1.03	312.15	17.84	157.26	139.41	5.25	323.25	14.11	76.64	62.53
1.13	312.55	17.64	157.26	139.62	5.72	325.25	13.96	76.64	62.68
1.31	313.35	17.28	157.26	139.97	6.67	326.95	13.62	76.64	63.02
1.50	314.15	16.98	157.26	140.28	7.61	328.15	13.31	76.64	63.33

1.69	314.95	16.72	157.26	140.54	8.56	329.75	13.05	76.64	63.59
1.88	315.65	16.48	157.26	140.78	9.50	331.55	12.84	76.64	63.80
2.06	316.15	16.25	157.26	141.01	11.37	332.75	12.38	76.64	64.26
					13.24	334.35	12.02	76.64	64.62
					14.18	335.75	11.88	76.64	64.76

NaCl	$R^2 = 0.986$				**NH_4Cl**	$R^2 = 0.979$			
0.46	302.15	19.31	86.10	66.79	0.45	303.65	19.46	71.37	51.92
0.92	305.75	17.78	86.10	68.32	0.90	307.15	17.91	71.37	53.46
1.37	308.55	16.90	86.10	69.20	1.35	310.65	17.07	71.37	54.31
1.83	310.95	16.29	86.10	69.81	1.80	313.25	16.46	71.37	54.91
2.29	312.75	15.81	86.10	70.30	2.24	315.95	16.02	71.37	55.35
2.75	314.65	15.43	86.10	70.68	2.69	318.15	15.65	71.37	55.72
3.20	316.65	15.12	86.10	70.98	3.14	320.05	15.34	71.37	56.04
3.66	317.55	14.81	86.10	71.29	3.59	321.85	15.07	71.37	56.31
4.11	319.15	14.58	86.10	71.53	4.03	323.25	14.82	71.37	56.56
4.57	320.85	14.37	86.10	71.73	4.48	325.15	14.62	71.37	56.76
5.02	322.15	14.18	86.10	71.92	4.93	326.55	14.43	71.37	56.95
5.48	323.65	14.01	86.10	72.09	5.37	327.95	14.25	71.37	57.12
6.38	325.05	13.66	86.10	72.45	6.26	330.15	13.93	71.37	57.45
7.29	325.85	13.33	86.10	72.77	7.15	332.55	13.66	71.37	57.71
8.19	327.15	13.07	86.10	73.04	8.04	334.75	13.43	71.37	57.95
9.09	328.25	12.83	86.10	73.28	8.92	335.15	13.15	71.37	58.22
10.89	329.85	12.39	86.10	73.71	10.68	337.15	12.72	71.37	58.65
12.68	331.35	12.03	86.10	74.07	12.44	339.55	12.38	71.37	58.99
13.58	331.85	11.86	86.10	74.24					

Table S2

Cloud point (CP) and energetic parameters ($\Delta_s G^0$, $\Delta_s H^0$ and $T\Delta_s S^0$) for clouding of 50 mmol kg^{-1} AMT prepared in 5% EG–WR mixed media, in presence of additives, pH=6.7.

Mole fraction of additives ($\chi_s \times 10^3$)	CP (K)	$\Delta_s G^0$ (kJ mol^{-1})	$\Delta_s H^0$ (kJ mol^{-1})	$T\Delta_s S^0$ (kJ mol^{-1})	Mole fraction of additives ($\chi_s \times 10^3$)	CP (K)	$\Delta_s G^0$ (kJ mol^{-1})	$\Delta_s H^0$ (kJ mol^{-1})	$T\Delta_s S^0$ (kJ mol^{-1})
KF	$R^2 = 0.992$				**KCl**	$R^2 = 0.986$			
0.47	302.95	19.29	178.71	159.43	0.50	305.05	19.30	99.18	79.88
0.95	304.95	17.66	178.71	161.06	0.99	308.15	17.72	99.18	81.45
1.42	306.25	16.70	178.71	162.01	1.49	310.65	16.82	99.18	82.36
1.89	307.85	16.05	178.71	162.66	1.98	312.95	16.20	99.18	82.98
2.36	308.85	15.53	178.71	163.18	2.47	314.55	15.70	99.18	83.48
2.83	309.85	15.11	178.71	163.60	2.97	316.15	15.30	99.18	83.88
3.30	310.75	14.76	178.71	163.95	3.46	317.45	14.96	99.18	84.22
3.77	311.75	14.46	178.71	164.25	3.95	318.55	14.65	99.18	84.52
4.24	312.15	14.18	178.71	164.53	4.44	319.65	14.39	99.18	84.78
4.71	312.45	13.92	178.71	164.79	4.94	320.95	14.17	99.18	85.00
5.64	312.75	13.46	178.71	165.25	5.43	321.85	13.96	99.18	85.22
6.58	313.35	13.09	178.71	165.62	5.92	322.65	13.76	99.18	85.41
7.51	314.35	12.78	178.71	165.93	6.90	324.25	13.42	99.18	85.76
8.44	315.15	12.51	178.71	166.20	7.87	325.35	13.10	99.18	86.07
9.37	315.65	12.26	178.71	166.46	8.85	326.55	12.83	99.18	86.34
10.30	315.85	12.02	178.71	166.70	9.82	327.65	12.59	99.18	86.58
11.23	316.15	11.80	178.71	166.91	10.80	328.65	12.37	99.18	86.80
12.15	316.55	11.61	178.71	167.10	11.76	329.55	12.17	99.18	87.00
13.07	316.95	11.43	178.71	167.28	13.70	331.65	11.83	99.18	87.35
KBr	$R^2 = 0.991$				**LiCl**	$R^2 = 0.991$			
0.09	303.15	23.36	178.37	155.00	0.47	304.55	19.38	89.70	70.33
0.19	305.15	21.76	178.37	156.61	0.95	308.05	17.83	89.70	71.88
0.28	306.65	20.83	178.37	157.53	1.42	311.15	16.96	89.70	72.75
0.38	308.05	20.19	178.37	158.18	1.90	313.85	16.36	89.70	73.35
0.47	308.65	19.66	178.37	158.71	2.37	315.85	15.87	89.70	73.83
0.57	309.65	19.25	178.37	159.11	2.84	317.45	15.48	89.70	74.23
0.66	310.55	18.91	178.37	159.46	3.31	318.65	15.13	89.70	74.58
0.75	311.35	18.61	178.37	159.75	3.78	320.15	14.84	89.70	74.86
0.85	312.15	18.35	178.37	160.01	4.26	321.85	14.61	89.70	75.09
0.94	312.65	18.11	178.37	160.26	4.73	323.15	14.39	89.70	75.32
1.13	313.35	17.68	178.37	160.69	5.67	324.75	13.97	89.70	75.74
1.32	314.15	17.32	178.37	161.05	6.60	326.35	13.62	89.70	76.08
1.51	314.55	16.99	178.37	161.37	7.54	327.75	13.32	89.70	76.39
1.69	315.15	16.72	178.37	161.65	8.48	328.65	13.04	89.70	76.67
1.88	315.65	16.47	178.37	161.90	9.41	330.15	12.81	89.70	76.90

2.07	316.05	16.24	178.37	162.13	10.34	331.55	12.60	89.70	77.10
					12.20	332.95	12.20	89.70	77.50
					14.05	334.45	11.86	89.70	77.84

NaCl	$R^2 = 0.984$				**NH_4Cl**	$R^2 = 0.954$			
0.48	304.65	19.36	94.90	75.54	0.48	305.15	19.36	55.88	36.52
0.96	307.65	17.78	94.90	77.12	0.97	307.65	17.75	55.88	38.13
1.44	310.25	16.88	94.90	78.02	1.45	311.65	16.93	55.88	38.95
1.91	312.55	16.26	94.90	78.64	1.94	315.15	16.37	55.88	39.51
2.39	314.25	15.77	94.90	79.13	2.42	317.55	15.91	55.88	39.98
2.87	315.65	15.36	94.90	79.54	2.90	320.15	15.55	55.88	40.33
3.35	317.25	15.04	94.90	79.87	3.38	322.35	15.25	55.88	40.63
3.82	318.65	14.75	94.90	80.15	3.86	324.65	15.00	55.88	40.88
4.30	319.65	14.48	94.90	80.42	4.34	326.25	14.75	55.88	41.13
4.77	320.65	14.25	94.90	80.65	4.82	328.65	14.58	55.88	41.31
5.72	322.75	13.86	94.90	81.04	5.78	332.15	14.23	55.88	41.65
6.67	324.25	13.51	94.90	81.39	6.74	334.75	13.91	55.88	41.97
7.61	325.75	13.21	94.90	81.69	7.70	337.35	13.65	55.88	42.23
8.56	327.15	12.95	94.90	81.95	8.65	340.15	13.43	55.88	42.45
9.50	328.15	12.70	94.90	82.20	9.60	342.45	13.23	55.88	42.65
10.44	329.35	12.49	94.90	82.41	11.50	347.15	12.89	55.88	42.99
12.31	330.95	12.10	94.90	82.80	13.39	351.65	12.61	55.88	43.27
14.18	332.15	11.75	94.90	83.15	14.33	353.75	12.49	55.88	43.40

Table S3

Cloud point (CP) and energetic parameters ($\Delta_s G^0$, $\Delta_s H^0$ and $T\Delta_s S^0$) for clouding of 50 mmol kg^{-1} AMT prepared in 10% EG–WR mixed media, in presence of additives, pH=6.7.

Mole fraction of additives (χ_s x 10^3)	**CP (K)**	**$\Delta_s G^0$ (kJ mol^{-1})**	**$\Delta_s H^0$ (kJ mol^{-1})**	**$T\Delta_s S^0$ (kJ mol^{-1})**	**Mole fraction of additives (χ_s x 10^3)**	**CP (K)**	**$\Delta_s G^0$ (kJ mol^{-1})**	**$\Delta_s H^0$ (kJ mol^{-1})**	**$T\Delta_s S^0$ (kJ mol^{-1})**
KF	R^2 = 0.987				**KCl**	R^2 =0.988			
0.50	303.45	19.18	188.02	168.83	0.50	305.55	19.29	96.09	76.80
1.00	305.35	17.55	188.02	170.47	1.01	308.85	17.72	96.09	78.37
1.49	306.95	16.60	188.02	171.41	1.51	311.65	16.84	96.09	79.25
1.99	308.65	15.96	188.02	172.06	2.01	313.65	16.19	96.09	79.90
2.49	310.25	15.47	188.02	172.55	2.51	315.15	15.69	96.09	80.40
2.98	311.15	15.04	188.02	172.98	3.01	317.15	15.31	96.09	80.78
3.48	311.75	14.67	188.02	173.35	3.51	318.95	14.99	96.09	81.10
3.97	312.25	14.35	188.02	173.67	4.01	319.55	14.66	96.09	81.43
4.47	312.75	14.07	188.02	173.95	4.51	321.55	14.44	96.09	81.65
4.96	313.05	13.81	188.02	174.21	5.01	322.85	14.22	96.09	81.87
5.95	313.65	13.36	188.02	174.66	5.50	323.65	14.00	96.09	82.09
6.93	314.25	12.99	188.02	175.03	6.00	324.25	13.79	96.09	82.30
7.91	314.65	12.66	188.02	175.36	7.00	325.75	13.44	96.09	82.65
8.89	315.05	12.37	188.02	175.65	7.99	327.15	13.14	96.09	82.95
9.87	315.45	12.11	188.02	175.91	8.98	328.25	12.86	96.09	83.23
10.85	315.75	11.88	188.02	176.14	9.96	329.15	12.61	96.09	83.48
11.82	316.15	11.66	188.02	176.36	10.95	330.15	12.39	96.09	83.70
					12.91	331.65	11.99	96.09	84.10
					14.87	333.15	11.66	96.09	84.43
KBr	R^2 = 0.983				**LiCl**	R^2 = 0.981			
0.10	304.15	23.35	171.42	148.07	0.50	305.15	19.31	82.44	63.13
0.20	306.05	21.73	171.42	149.69	0.99	307.65	17.70	82.44	64.75
0.29	307.05	20.76	171.42	150.65	1.48	310.65	16.82	82.44	65.62
0.39	308.15	20.10	171.42	151.32	1.98	313.15	16.21	82.44	66.23
0.49	309.45	19.61	171.42	151.80	2.47	315.65	15.75	82.44	66.69
0.59	310.25	19.19	171.42	152.22	2.96	317.55	15.37	82.44	67.07
0.68	310.95	18.84	171.42	152.58	3.46	319.55	15.06	82.44	67.38
0.78	311.75	18.54	171.42	152.88	3.95	321.15	14.78	82.44	67.66
0.88	312.35	18.27	171.42	153.15	4.44	322.65	14.53	82.44	67.91
0.98	312.95	18.03	171.42	153.38	4.93	323.75	14.30	82.44	68.14
1.08	313.85	17.84	171.42	153.58	5.42	324.65	14.08	82.44	68.36
1.17	314.35	17.64	171.42	153.78	5.91	325.75	13.90	82.44	68.54
1.37	314.95	17.27	171.42	154.15	6.89	327.95	13.57	82.44	68.87
1.56	315.65	16.96	171.42	154.46	7.86	329.65	13.28	82.44	69.16

1.76	316.15	16.67	171.42	154.74	8.84	331.15	13.02	82.44	69.42
1.95	316.55	16.42	171.42	155.00	9.81	332.35	12.78	82.44	69.66
2.15	317.15	16.20	171.42	155.22	10.78	333.15	12.55	82.44	69.89
2.34	317.55	15.99	171.42	155.43	12.71	334.65	12.14	82.44	70.30
2.73	318.55	15.63	171.42	155.78	14.26	335.55	11.86	82.44	70.58

NaCl	R^2 =0.99				**NH_4Cl**	R^2 = 0.983, R^2 =0.965			
0.50	305.75	19.30	93.85	74.55	0.51	306.25	19.31	111.73	92.43
1.01	308.75	17.71	93.85	76.14	1.02	310.55	17.79	111.73	93.94
1.51	311.65	16.83	93.85	77.02	1.53	314.15	16.94	111.73	94.80
2.01	314.15	16.21	93.85	77.64	2.03	317.55	16.36	34.69	18.33
2.52	316.45	15.75	93.85	78.10	2.54	321.35	15.96	34.69	18.73
3.02	317.75	15.33	93.85	78.52	3.05	323.85	15.60	34.69	19.10
3.52	319.95	15.03	93.85	78.82	3.55	327.35	15.35	34.69	19.34
4.02	321.15	14.73	93.85	79.12	4.06	330.65	15.14	34.69	19.56
4.52	322.45	14.48	93.85	79.38	4.57	333.75	14.95	34.69	19.74
5.02	323.35	14.23	93.85	79.62	5.07	336.45	14.78	34.69	19.91
5.52	324.35	14.02	93.85	79.83	5.57	340.15	14.68	34.69	20.02
6.02	325.65	13.84	93.85	80.01	6.08	342.95	14.55	34.69	20.14
7.01	326.65	13.47	93.85	80.38	7.08	351.15	14.45	34.69	20.24
8.00	327.75	13.16	93.85	80.70					
9.00	329.15	12.89	93.85	80.96					
9.99	330.15	12.64	93.85	81.21					
10.97	330.95	12.42	93.85	81.44					
12.94	332.65	12.02	93.85	81.83					
14.51	333.55	11.74	93.85	82.11					

Table S4

Cloud point (CP) and energetic parameters ($\Delta_s G^0$, $\Delta_s H^0$ and $T\Delta_s S^0$) for clouding of 50 mmol kg^{-1} AMT prepared in 15% EG–WR mixed media, in presence of additives, pH=6.7.

Mole fraction of additives (χ_s x 10^3)	CP (K)	$\Delta_s G^0$ (kJ mol^{-1})	$\Delta_s H^0$ (kJ mol^{-1})	$T\Delta_s S^0$ (kJ mol^{-1})	Mole fraction of additives (χ_s x 10^3)	CP (K)	$\Delta_s G^0$ (kJ mol^{-1})	$\Delta_s H^0$ (kJ mol^{-1})	$T\Delta_s S^0$ (kJ mol^{-1})
KF	R^2 = 0.977				**KCl**	R^2 = 0.981			
0.54	305.85	19.15	229.97	210.82	0.499	307.55	19.44	105.07	85.63
1.07	307.65	17.49	229.97	212.47	0.997	310.15	17.82	105.07	87.25
1.61	309.15	16.54	229.97	213.43	1.495	313.05	16.93	105.07	88.14
2.14	310.15	15.85	229.97	214.12	1.992	314.95	16.28	105.07	88.79
2.68	311.15	15.32	229.97	214.64	2.489	315.95	15.75	105.07	89.32
3.21	312.15	14.90	229.97	215.06	2.985	317.25	15.34	105.07	89.74
3.74	312.95	14.54	229.97	215.43	3.481	318.55	14.99	105.07	90.08
4.27	313.45	14.22	229.97	215.75	3.976	319.75	14.69	105.07	90.38
4.81	313.75	13.92	229.97	216.04	4.471	320.85	14.43	105.07	90.64
5.34	314.15	13.67	229.97	216.30	4.965	321.95	14.20	105.07	90.87
5.87	314.55	13.44	229.97	216.53	5.459	322.95	13.99	105.07	91.08
6.40	314.95	13.23	229.97	216.74	5.952	323.85	13.80	105.07	91.27
7.46	315.35	12.84	229.97	217.12	6.937	325.85	13.47	105.07	91.60
8.51	315.85	12.52	229.97	217.45	7.921	326.75	13.14	105.07	91.93
9.57	315.95	12.21	229.97	217.75	8.902	327.85	12.87	105.07	92.20
10.62	315.95	11.94	229.97	218.03	9.881	328.85	12.62	105.07	92.45
11.67	316.05	11.70	229.97	218.27	10.859	329.55	12.39	105.07	92.68
12.71	316.15	11.47	229.97	218.49	11.834	330.45	12.19	105.07	92.88
14.80	316.55	11.09	229.97	218.88	13.779	331.95	11.82	105.07	93.25
15.74	316.85	10.94	229.97	219.03	15.330	332.95	11.57	105.07	93.51
KBr	R^2 = 0.981				**LiCl**	R^2 = 0.987			
0.102	306.15	23.40	202.03	178.63	0.514	307.75	19.38	87.02	67.64
0.204	307.65	21.74	202.03	180.29	1.027	310.75	17.78	87.02	69.24
0.305	308.55	20.76	202.03	181.27	1.540	313.65	16.89	87.02	70.13
0.407	309.85	20.11	202.03	181.92	2.052	316.45	16.28	87.02	70.73
0.509	310.55	19.58	202.03	182.45	2.564	318.55	15.80	87.02	71.21
0.610	311.15	19.15	202.03	182.88	3.075	320.45	15.41	87.02	71.60
0.712	311.75	18.78	202.03	183.25	3.586	322.15	15.08	87.02	71.93
0.814	312.45	18.48	202.03	183.55	4.096	323.65	14.79	87.02	72.22
0.915	313.15	18.21	202.03	183.81	4.605	324.65	14.52	87.02	72.49
1.017	313.95	17.99	202.03	184.04	5.114	325.95	14.30	87.02	72.72
1.119	314.55	17.77	202.03	184.26	5.623	327.15	14.09	87.02	72.92
1.220	314.95	17.57	202.03	184.46	6.131	328.15	13.90	87.02	73.12
1.423	315.15	17.17	202.03	184.85	7.146	330.05	13.56	87.02	73.46
1.626	315.55	16.85	202.03	185.18	8.158	330.75	13.22	87.02	73.79

1.829	316.05	16.56	202.03	185.46	9.168	332.65	12.98	87.02	74.04
2.032	316.55	16.31	202.03	185.72	10.177	334.35	12.75	87.02	74.26
2.235	316.95	16.08	202.03	185.95	11.183	335.25	12.52	87.02	74.49
2.437	317.45	15.88	202.03	186.15	12.187	336.25	12.32	87.02	74.69
2.842	318.45	15.52	202.03	186.51	14.190	337.75	11.95	87.02	75.07
3.146	318.95	15.28	202.03	186.75	15.686	338.45	11.69	87.02	75.32

NaCl	$R^2 = 0.991$				**NH_4Cl**	$R^2 = 0.9741$, $R^2 = 0.969$			
0.518	307.65	19.35	100.75	81.40	0.536	308.55	19.32	111.87	92.55
1.036	310.95	17.77	100.75	82.98	1.072	312.75	17.78	111.87	94.09
1.552	313.65	16.87	100.75	83.88	1.607	316.55	16.93	111.87	94.94
2.069	315.65	16.22	100.75	84.53	2.142	320.35	16.37	33.62	17.25
2.585	317.75	15.74	100.75	85.01	2.676	323.55	15.93	33.62	17.69
3.100	319.45	15.34	100.75	85.40	3.209	327.35	15.63	33.62	18.00
3.615	320.95	15.00	100.75	85.74	3.742	331.75	15.41	33.62	18.21
4.129	322.25	14.71	100.75	86.04	4.275	335.85	15.23	33.62	18.39
4.643	323.35	14.44	100.75	86.30	4.806	339.45	15.06	33.62	18.56
5.156	324.35	14.20	100.75	86.54	5.337	344.85	15.00	33.62	18.62
5.669	325.25	13.99	100.75	86.76					
6.181	326.05	13.79	100.75	86.96					
7.204	327.65	13.44	100.75	87.31					
8.225	328.95	13.13	100.75	87.62					
9.243	330.15	12.86	100.75	87.89					
10.260	331.15	12.61	100.75	88.14					
11.274	331.85	12.37	100.75	88.37					
12.286	332.35	12.16	100.75	88.59					
14.305	333.35	11.77	100.75	88.98					
15.813	334.05	11.52	100.75	89.23					

Table S5

Cloud point (CP) and energetic parameters ($\Delta_s G^0$, $\Delta_s H^0$ and $T\Delta_s S^0$) for clouding of 50 mmol kg^{-1} AMT prepared in 20% EG–WR mixed media, in presence of additives, pH=6.7.

Mole fraction of additives (χ_s x $_{10}^3$)	**CP (K)**	**$\Delta_s G^0$ (kJ mol^{-1})**	**$\Delta_s H^0$ (kJ mol^{-1})**	**$T\Delta_s S^0$ (kJ mol^{-1})**	**Mole fraction of additives (χ_s x $_{10}^3$)**	**CP (K)**	**$\Delta_s G^0$ (kJ mol^{-1})**	**$\Delta_s H^0$ (kJ mol^{-1})**	**$T\Delta_s S^0$ (kJ mol^{-1})**
KF	R^2 = 0.966, R^2 = 0.885				**KCl**	R^2 =0.978			
0.567	311.15	19.34	208.57	189.24	0.543	312.95	19.56	124.51	104.94
1.134	313.25	17.66	208.57	190.91	1.085	314.95	17.88	124.51	106.63
1.700	314.45	16.67	208.57	191.90	1.626	316.85	16.92	124.51	107.59
2.266	315.25	15.96	208.57	192.61	2.167	318.35	16.24	124.51	108.27
2.831	316.15	15.42	208.57	193.15	2.707	320.35	15.75	124.51	108.76
3.395	317.05	14.99	208.57	193.59	3.247	323.55	15.41	124.51	109.09
3.958	317.75	14.61	208.57	193.96	3.786	324.15	15.03	124.51	109.48
4.521	318.55	14.30	208.57	194.28	4.324	324.75	14.70	124.51	109.81
5.084	319.35	14.02	208.57	194.55	4.862	325.35	14.41	124.51	110.10
5.645	320.35	13.79	-408.29	-422.08	5.399	325.95	14.15	124.51	110.36
6.206	320.75	13.55	-408.29	-421.84	5.936	326.35	13.91	124.51	110.60
6.767	320.15	13.30	-408.29	-421.59	6.472	327.65	13.73	124.51	110.78
7.886	319.75	12.87	-408.29	-421.16	7.543	328.65	13.35	124.51	111.15
9.002	319.55	12.51	-408.29	-420.80	8.611	330.55	13.07	124.51	111.44
10.116	319.35	12.20	-408.29	-420.49	9.677	331.15	12.77	124.51	111.74
11.227	319.15	11.91	-408.29	-420.20	10.741	330.85	12.47	124.51	112.04
12.336	319.15	11.66	-408.29	-419.95	11.802	331.05	12.22	124.51	112.29
13.442	318.95	11.43	-408.29	-419.72	12.861	332.75	12.04	124.51	112.46
15.648	318.45	11.01	-408.29	-419.30	14.973	333.75	11.66	124.51	112.85
16.308	318.95	10.91	-408.29	-419.20					
KBr	R^2 =0.964, R^2 =0.912				**LiCl**	R^2 =0.982			
0.107	309.65	23.53	211.19	187.66	0.53	312.75	19.62	81.17	61.56
0.215	311.75	21.89	211.19	189.30	1.06	315.85	18.00	81.17	63.18
0.322	313.15	20.93	211.19	190.26	1.58	319.15	17.11	81.17	64.07
0.430	314.55	20.27	211.19	190.91	2.11	321.35	16.46	81.17	64.72
0.537	315.75	19.77	211.19	191.42	2.64	325.95	16.09	81.17	65.08
0.644	316.95	19.36	211.19	191.83	3.16	326.95	15.65	81.17	65.53
0.752	317.75	19.00	211.19	192.19	3.69	327.95	15.28	81.17	65.90
0.859	318.05	18.67	211.19	192.52	4.21	328.75	14.95	81.17	66.23
0.966	318.25	18.37	211.19	192.82	4.74	331.35	14.74	81.17	66.43
1.073	318.45	18.10	211.19	193.09	5.26	332.35	14.50	81.17	66.68
1.180	318.65	17.86	211.19	193.33	5.78	333.45	14.28	81.17	66.89
1.288	318.95	17.65	211.19	193.54	6.31	334.95	14.11	81.17	67.07
1.502	319.35	17.26	211.19	193.93	7.35	337.15	13.77	81.17	67.40
1.716	318.75	16.87	211.19	194.31	8.39	338.95	13.47	81.17	67.70

1.930	318.65	16.56	266.24	249.68	9.43	340.35	13.20	81.17	67.98
2.144	318.55	16.27	266.24	249.97	10.47	341.55	12.95	81.17	68.23
2.358	318.85	16.04	266.24	250.20	11.50	342.95	12.73	81.17	68.44
2.572	319.35	15.83	266.24	250.41	12.53	344.15	12.53	81.17	68.64
2.999	319.75	15.44	266.24	250.80	14.59	346.15	12.17	81.17	69.01
3.170	319.95	15.31	266.24	250.93	15.62	346.65	11.99	81.17	69.19

NaCl	R^2 =0.993				**NH_4Cl**	R^2 =0.91			
0.53	312.75	19.63	115.89	96.26	0.52	322.35	20.27	148.92	128.65
1.05	315.75	18.00	115.89	97.89	1.04	325.15	18.57	148.92	130.34
1.58	318.25	17.07	115.89	98.82	1.56	328.75	17.67	148.92	131.24
2.10	320.95	16.45	115.89	99.44	2.07	348.15	-	-	-
2.63	322.75	15.95	115.89	99.95					
3.15	324.15	15.52	115.89	100.37					
3.67	325.25	15.16	115.89	100.73					
4.20	326.15	14.84	115.89	101.05					
4.72	327.35	14.58	115.89	101.31					
5.24	328.55	14.35	115.89	101.55					
5.76	329.15	14.11	115.89	101.78					
6.28	330.35	13.93	115.89	101.97					
7.32	331.15	13.54	115.89	102.35					
8.36	331.65	13.19	115.89	102.70					
9.39	332.25	12.89	115.89	103.00					
10.42	333.05	12.64	115.89	103.26					
11.45	334.05	12.41	115.89	103.48					
12.48	335.05	12.21	115.89	103.68					
14.53	336.85	11.85	115.89	104.04					
15.35	336.95	11.70	115.89	104.19					

Table S6

Cloud point (CP) and energetic parameters (Δ_sG^0, Δ_sH^0 and $T\Delta_sS^0$) for clouding of 50 mmol kg^{-1} AMT prepared in 5% GL–WR mixed media, in presence of additives, pH=6.7.

Mole fraction of additives (χ_s x 10^3)	CP (K)	Δ_sG^0 (kJ mol^{-1})	Δ_sH^0 (kJ mol^{-1})	$T\Delta_sS^0$ (kJ mol^{-1})	Mole fraction of additives (χ_s x 10^3)	CP (K)	Δ_sG^0 (kJ mol^{-1})	Δ_sH^0 (kJ mol^{-1})	$T\Delta_sS^0$ (kJ mol^{-1})
KF	R^2 = 0.985				**KCl**	R^2 = 0.989			
0.48	304.45	19.33	177.41	158.08	0.49	305.95	19.37	95.15	75.78
0.96	306.55	17.70	177.41	159.71	0.99	309.55	17.82	95.15	77.34
1.45	308.25	16.76	177.41	160.65	1.48	312.15	16.91	95.15	78.24
1.93	309.95	16.11	177.41	161.30	1.97	314.95	16.31	95.15	78.84
2.41	310.95	15.59	177.41	161.82	2.46	316.75	15.82	95.15	79.33
2.89	312.15	15.18	177.41	162.23	2.95	317.95	15.40	95.15	79.75
3.37	313.15	14.82	177.41	162.58	3.44	319.65	15.07	95.15	80.08
3.85	313.95	14.52	177.41	162.89	3.93	320.75	14.77	95.15	80.38
4.32	314.55	14.24	177.41	163.17	4.42	321.85	14.51	95.15	80.65
4.80	315.05	13.98	177.41	163.42	4.91	322.65	14.26	95.15	80.89
5.76	315.95	13.55	177.41	163.86	5.88	324.65	13.86	95.15	81.29
6.71	316.35	13.16	177.41	164.25	6.86	326.35	13.52	95.15	81.64
7.66	316.65	12.83	177.41	164.58	7.83	328.15	13.23	95.15	81.92
8.61	317.15	12.54	177.41	164.87	8.80	329.55	12.97	95.15	82.19
9.56	317.55	12.28	177.41	165.13	9.77	330.75	12.73	95.15	82.43
10.50	317.85	12.04	177.41	165.37	10.73	331.65	12.50	95.15	82.65
12.01	318.25	11.70	177.41	165.71	12.28	332.55	12.17	95.15	82.99
13.52	318.55	11.40	177.41	166.01	13.81	333.35	11.87	95.15	83.29
14.46	318.65	11.22	177.41	166.18	14.77	333.75	11.70	95.15	83.46
KBr	R^2 = 0.996				**LiCl**	R^2 = 0.993			
0.12	304.65	22.94	157.84	134.90	0.47	306.05	19.49	86.08	66.58
0.23	306.85	21.34	157.84	136.50	0.94	309.65	17.94	86.08	68.14
0.35	308.75	20.43	157.84	137.41	1.41	313.15	17.09	86.08	68.99
0.47	310.65	19.81	157.84	138.03	1.88	316.15	16.50	86.08	69.58
0.58	311.75	19.31	157.84	138.54	2.35	318.15	16.01	86.08	70.06
0.70	312.75	18.89	157.84	138.95	2.82	320.15	15.63	86.08	70.45
0.81	313.65	18.55	157.84	139.30	3.29	321.85	15.30	86.08	70.77
0.93	314.45	18.25	157.84	139.60	3.75	323.45	15.02	86.08	71.06
1.05	315.05	17.97	157.84	139.87	4.22	325.05	14.78	86.08	71.30
1.16	315.65	17.73	157.84	140.11	4.69	325.15	14.50	86.08	71.58
1.36	316.35	17.36	157.84	140.48	5.62	327.65	14.12	86.08	71.96
1.55	316.95	17.05	157.84	140.80	6.55	329.75	13.79	86.08	72.29
1.74	317.55	16.77	157.84	141.07	7.48	331.15	13.48	86.08	72.60
1.94	318.15	16.52	157.84	141.32	8.40	332.45	13.21	86.08	72.87
2.13	318.75	16.30	157.84	141.54	9.33	333.25	12.95	86.08	73.12

2.32	319.15	16.09	157.84	141.75	10.25	334.15	12.72	86.08	73.35
2.63	319.95	15.80	157.84	142.04	11.73	335.85	12.41	86.08	73.66
					13.20	336.85	12.12	86.08	73.96
					13.75	337.35	12.02	86.08	74.05

NaCl	$R^2 = 0.991$				**NH_4Cl**	$R^2 = 0.967$, $R^2 = 0.985$			
0.48	306.15	19.44	92.21	72.77	0.48	307.25	19.52	116.49	96.98
0.96	309.65	17.88	92.21	74.33	0.96	311.15	17.97	116.49	98.52
1.45	312.45	16.99	92.21	75.22	1.44	314.85	17.12	116.49	99.37
1.93	314.75	16.36	92.21	75.84	1.92	318.45	16.56	42.84	26.28
2.41	316.75	15.88	92.21	76.33	2.40	320.55	16.08	42.84	26.76
2.89	318.65	15.49	92.21	76.71	2.88	322.75	15.70	42.84	27.14
3.37	320.65	15.18	92.21	77.03	3.36	325.25	15.40	42.84	27.43
3.84	321.95	14.89	92.21	77.32	3.84	327.65	15.16	42.84	27.68
4.32	322.85	14.61	92.21	77.59	4.31	329.75	14.93	42.84	27.90
4.80	324.25	14.39	92.21	77.81	4.79	332.05	14.75	42.84	28.09
5.76	326.15	13.99	92.21	78.22	5.74	335.95	14.41	42.84	28.42
6.71	327.65	13.63	92.21	78.57	6.69	340.25	14.16	42.84	28.67
7.66	328.75	13.32	92.21	78.89	7.64	343.75	13.93	42.84	28.90
8.61	330.15	13.05	92.21	79.15	8.59	346.25	13.70	42.84	29.14
9.56	331.15	12.80	92.21	79.40	9.53	347.75	13.45	42.84	29.38
10.50	332.25	12.59	92.21	79.62	10.48	350.65	13.29	42.84	29.55
12.01	333.55	12.26	92.21	79.94	11.98	353.65	13.01	42.84	29.83
13.52	334.45	11.97	92.21	80.24	13.48	359.15	12.86	42.84	29.98
14.27	335.05	11.84	92.21	80.37	14.23	362.15	12.80	42.84	30.03

Table S7

Cloud point (CP) and energetic parameters (Δ_sG^0, Δ_sH^0 and $T\Delta_sS^0$) for clouding of 50 mmol kg^{-1} AMT prepared in 10% GL–WR mixed media, in presence of additives, pH=6.7.

Mole fraction of additives ($\chi_s \times 10^3$)	CP (K)	Δ_sG^0 (kJ mol^{-1})	Δ_sH^0 (kJ mol^{-1})	$T\Delta_sS^0$ (kJ mol^{-1})	Mole fraction of additives ($\chi_s \times 10^3$)	CP (K)	Δ_sG^0 (kJ mol^{-1})	Δ_sH^0 (kJ mol^{-1})	$T\Delta_sS^0$ (kJ mol^{-1})
KF	$R^2 = 0.92$				**KCl**	$R^2 = 0.982$			
0.50	306.15	19.33	187.26	167.93	0.53	310.15	19.47	100.36	80.89
1.01	307.95	17.67	187.26	169.59	1.05	311.75	17.77	100.36	82.58
1.51	309.85	16.74	187.26	170.52	1.58	314.65	16.88	100.36	83.48
2.01	311.55	16.08	187.26	171.18	2.10	317.75	16.29	100.36	84.07
2.51	312.95	15.58	187.26	171.68	2.63	319.15	15.77	100.36	84.59
3.01	314.55	15.18	187.26	172.08	3.15	320.85	15.37	100.36	84.99
3.51	315.15	14.81	187.26	172.45	3.67	322.55	15.03	100.36	85.32
4.01	316.15	14.51	187.26	172.75	4.20	324.45	14.76	100.36	85.59
4.51	316.75	14.22	187.26	173.04	4.72	325.65	14.50	100.36	85.85
5.01	317.05	13.96	187.26	173.30	5.24	326.85	14.27	100.36	86.09
6.01	317.55	13.50	187.26	173.76	6.28	328.55	13.85	100.36	86.51
7.00	317.85	13.11	187.26	174.15	7.32	329.55	13.47	100.36	86.88
7.99	318.75	12.80	187.26	174.46	8.36	330.55	13.15	100.36	87.21
8.98	318.65	12.48	187.26	174.77	9.39	331.25	12.85	100.36	87.50
9.97	318.45	12.20	187.26	175.06	10.43	332.15	12.60	100.36	87.75
10.96	318.55	11.95	187.26	175.31	11.46	333.15	12.38	100.36	87.98
12.53	318.35	11.59	187.26	175.67	13.10	334.55	12.06	100.36	88.30
14.10	318.15	11.27	187.26	175.99	14.74	335.95	11.78	100.36	88.58
14.88	318.55	11.14	187.26	176.12					
KBr	$R^2 = 0.981$				**LiCl**	$R^2 = 0.989$			
0.13	306.55	22.87	153.58	130.70	0.50	308.15	19.47	88.46	68.98
0.25	308.15	21.22	153.58	132.36	1.00	311.65	17.90	88.46	70.56
0.38	309.65	20.28	153.58	133.30	1.50	314.65	17.01	88.46	71.45
0.51	311.15	19.63	153.58	133.95	2.00	316.65	16.37	88.46	72.09
0.63	312.55	19.14	153.58	134.44	2.49	318.95	15.89	88.46	72.56
0.76	313.65	18.73	153.58	134.85	2.99	321.95	15.56	88.46	72.90
0.88	314.35	18.37	153.58	135.21	3.49	322.75	15.18	88.46	73.28
1.01	314.85	18.05	153.58	135.53	3.98	324.65	14.91	88.46	73.55
1.14	315.65	17.79	153.58	135.79	4.48	325.65	14.64	88.46	73.82
1.26	316.15	17.54	153.58	136.04	4.97	326.85	14.41	88.46	74.05
1.47	317.55	17.21	153.58	136.37	5.96	328.75	14.00	88.46	74.46
1.68	318.15	16.89	153.58	136.69	6.95	330.85	13.67	88.46	74.79
1.89	318.95	16.62	153.58	136.96	7.94	332.25	13.36	88.46	75.10
2.10	319.65	16.38	153.58	137.20	8.92	333.35	13.08	88.46	75.38
2.31	320.25	16.16	153.58	137.42	9.90	334.45	12.83	88.46	75.63

2.52	320.85	15.96	153.58	137.62	10.88	335.55	12.61	88.46	75.85
2.86	321.65	15.66	153.58	137.92	12.44	336.15	12.26	88.46	76.20
3.03	321.95	15.52	153.58	138.05	14.00	338.15	12.00	88.46	76.46
					14.39	338.65	11.94	88.46	76.52

NaCl	$R^2 = 0.986$				**NH_4Cl**	$R^2 = 0.965$, $R^2 = 0.996$, $R^2 = 0.992$			
0.54	308.35	19.31	88.84	69.53	0.51	309.05	19.46	99.51	80.05
1.07	312.05	17.74	88.84	71.10	1.03	313.15	17.91	99.51	81.60
1.61	314.65	16.83	88.84	72.01	1.54	316.95	17.06	99.51	82.45
2.14	316.75	16.19	88.84	72.66	2.06	320.45	16.48	99.51	83.02
2.68	318.95	15.71	88.84	73.13	2.57	323.35	16.03	44.88	28.84
3.21	320.65	15.31	88.84	73.53	3.08	325.65	15.66	44.88	29.22
3.74	322.55	14.99	88.84	73.86	3.59	329.15	15.40	44.88	29.47
4.27	323.65	14.68	88.84	74.16	4.10	331.85	15.16	44.88	29.71
4.81	325.15	14.43	88.84	74.41	4.61	334.15	14.94	44.88	29.94
5.34	326.45	14.20	88.84	74.64	5.12	336.55	14.76	44.88	30.12
6.40	328.55	13.80	88.84	75.04	6.14	340.85	14.43	44.88	30.45
7.46	331.15	13.49	88.84	75.35	7.16	343.65	14.11	44.88	30.77
8.51	332.05	13.16	88.84	75.68	8.17	347.55	13.89	15.03	1.14
9.56	333.15	12.88	88.84	75.96	9.18	354.65	13.83	15.03	1.20
10.62	334.45	12.64	88.84	76.20	10.19	362.95	13.84	15.03	1.19
11.67	335.65	12.42	88.84	76.42					
13.34	336.95	12.09	88.84	76.75					
15.01	337.75	11.79	88.84	77.05					
15.84	338.05	11.65	88.84	77.19					

Table S8

Cloud point (CP) and energetic parameters ($\Delta_s G^0$, $\Delta_s H^0$ and $T\Delta_s S^0$) for clouding of 50 mmol kg^{-1} AMT prepared in 15% GL–WR mixed media, in presence of additives, pH=6.7.

Mole fraction of additives (χ_s x 10^3)	CP (K)	$\Delta_s G^0$ (kJ mol^{-1})	$\Delta_s H^0$ (kJ mol^{-1})	$T\Delta_s S^0$ (kJ mol^{-1})	Mole fraction of additives (χ_s x 10^3)	CP (K)	$\Delta_s G^0$ (kJ mol^{-1})	$\Delta_s H^0$ (kJ mol^{-1})	$T\Delta_s S^0$ (kJ mol^{-1})
KF	R^2 = 0.94				**KCl**	R^2 =0.993			
0.53	304.55	19.12	220.31	201.19	0.53	308.25	19.33	126.67	107.34
1.05	305.35	17.41	220.31	202.90	1.06	310.95	17.71	126.67	108.96
1.58	307.05	16.47	220.31	203.84	1.59	312.95	16.77	126.67	109.90
2.10	308.15	15.80	220.31	204.51	2.12	314.95	16.12	126.67	110.55
2.62	309.25	15.28	220.31	205.03	2.65	316.55	15.62	126.67	111.05
3.15	310.25	14.86	220.31	205.45	3.18	318.15	15.22	126.67	111.45
3.67	311.15	14.51	220.31	205.80	3.70	319.25	14.86	126.67	111.81
4.19	311.95	14.20	220.31	206.11	4.23	320.35	14.56	126.67	112.11
4.71	312.35	13.91	220.31	206.40	4.76	321.15	14.28	126.67	112.39
5.24	312.75	13.66	220.31	206.65	5.28	321.95	14.04	126.67	112.63
5.76	313.35	13.44	220.31	206.87	5.81	322.45	13.80	126.67	112.87
6.28	313.75	13.23	220.31	207.08	6.33	322.95	13.59	126.67	113.08
7.31	314.05	12.84	220.31	207.47	7.38	324.15	13.23	126.67	113.44
8.35	314.15	12.50	220.31	207.81	8.42	325.35	12.92	126.67	113.75
9.38	314.05	12.19	220.31	208.12	9.47	326.15	12.64	126.67	114.03
10.42	314.05	11.92	220.31	208.39	10.51	326.75	12.38	126.67	114.29
11.45	314.25	11.68	220.31	208.63	11.55	327.15	12.13	126.67	114.53
12.47	314.35	11.46	220.31	208.85	12.58	327.75	11.92	126.67	114.75
14.52	314.45	11.06	220.31	209.25	14.65	328.65	11.54	126.67	115.13
15.54	314.45	10.89	220.31	209.42	15.68	329.05	11.37	126.67	115.30
KBr	R^2 = 0.985				**LiCl**	R^2 = 0.987			
0.11	305.35	23.17	214.52	191.35	0.53	308.05	19.30	102.81	83.52
0.22	307.15	21.53	214.52	192.99	1.07	309.25	17.59	102.81	85.22
0.33	308.15	20.56	214.52	193.95	1.60	313.25	16.76	102.81	86.05
0.44	309.15	19.89	214.52	194.63	2.13	315.55	16.13	102.81	86.68
0.54	309.75	19.36	214.52	195.16	2.67	317.35	15.64	102.81	87.17
0.65	310.35	18.92	214.52	195.59	3.20	319.15	15.25	102.81	87.57
0.76	310.85	18.56	214.52	195.96	3.73	320.55	14.90	102.81	87.91
0.87	311.35	18.24	214.52	196.28	4.26	321.65	14.60	102.81	88.21
0.98	311.95	17.97	214.52	196.55	4.79	322.75	14.33	102.81	88.48
1.09	312.75	17.74	214.52	196.78	5.32	323.45	14.08	102.81	88.73
1.20	313.15	17.52	214.52	197.00	5.84	324.45	13.87	102.81	88.94
1.31	313.35	17.30	214.52	197.22	6.37	325.15	13.67	102.81	89.15
1.52	313.85	16.93	214.52	197.59	7.43	326.35	13.30	102.81	89.51
1.74	314.55	16.62	214.52	197.90	8.48	327.55	12.99	102.81	89.82

1.96	315.15	16.34	214.52	198.18	9.53	329.15	12.73	102.81	90.08
2.17	315.55	16.09	214.52	198.43	10.58	330.25	12.49	102.81	90.32
2.39	315.95	15.86	214.52	198.66	11.62	330.95	12.26	102.81	90.56
2.61	316.35	15.65	214.52	198.87	12.67	331.45	12.04	102.81	90.77
3.04	317.05	15.28	214.52	199.24	14.74	332.45	11.66	102.81	91.16
3.26	317.35	15.11	214.52	199.41	15.57	333.05	11.52	102.81	91.29

NaCl	$R^2 = 0.991$				**NH_4Cl**	$R^2 = 0.982$, $R^2 = 0.981$			
0.52	307.45	19.33	113.95	94.62	0.56	308.15	19.18	108.93	89.75
1.04	310.15	17.71	113.95	96.23	1.12	312.15	17.64	108.93	91.30
1.56	312.55	16.80	113.95	97.15	1.68	315.95	16.79	108.93	92.15
2.08	315.35	16.19	113.95	97.75	2.23	318.35	16.15	108.93	92.78
2.60	316.25	15.65	113.95	98.29	2.79	321.15	15.70	39.28	23.58
3.11	317.25	15.22	113.95	98.72	3.35	323.35	15.32	39.28	23.96
3.63	318.95	14.90	113.95	99.05	3.90	326.35	15.05	39.28	24.24
4.15	319.95	14.59	113.95	99.35	4.46	329.35	14.82	39.28	24.46
4.66	321.05	14.33	113.95	99.62	5.01	331.15	14.58	39.28	24.70
5.18	321.95	14.09	113.95	99.86	5.57	334.35	14.43	39.28	24.85
5.69	322.75	13.87	113.95	100.08	6.12	335.95	14.23	39.28	25.05
6.21	323.35	13.66	113.95	100.28	6.68	337.95	14.07	39.28	25.21
7.23	324.45	13.30	113.95	100.65	7.78	341.25	13.78	39.28	25.51
8.26	325.75	12.99	113.95	100.96	8.88	345.35	13.56	39.28	25.72
9.28	326.95	12.72	113.95	101.22	9.98	348.55	13.35	39.28	25.93
10.30	327.75	12.47	113.95	101.48	11.08	355.15	13.30	39.28	25.99
11.32	328.55	12.24	113.95	101.70					
12.34	329.15	12.03	113.95	101.92					
14.37	330.15	11.65	113.95	102.30					
15.38	330.55	11.47	113.95	102.47					

Table S9

Cloud point (CP) and energetic parameters (Δ_sG^0, Δ_sH^0 and $T\Delta_sS^0$) for clouding of 50 mmol kg^{-1} AMT prepared in 20% GL–WR mixed media, in presence of additives, pH=6.7.

Mole fraction of additives (χ_s x 10^3)	**CP (K)**	**Δ_sG^0 (kJ mol^{-1})**	**Δ_sH^0 (kJ mol^{-1})**	**$T\Delta_sS^0$ (kJ mol^{-1})**	**Mole fraction of additives (χ_s x 10^3)**	**CP (K)**	**Δ_sG^0 (kJ mol^{-1})**	**Δ_sH^0 (kJ mol^{-1})**	**$T\Delta_sS^0$ (kJ mol^{-1})**
KF	R^2 = 0.942, R^2 = 0.957				**KCl**	R^2 = 0.992			
0.55	306.95	19.16	153.57	134.41	0.58	309.35	19.15	107.45	88.30
1.09	308.65	17.49	153.57	136.08	1.17	312.15	17.52	107.45	89.93
1.64	310.15	16.53	153.57	137.04	1.75	315.15	16.63	107.45	90.82
2.19	312.75	15.93	153.57	137.65	2.33	317.35	15.99	107.45	91.46
2.73	314.15	15.42	153.57	138.16	2.92	319.05	15.48	107.45	91.96
3.28	315.35	15.00	153.57	138.57	3.50	320.85	15.09	107.45	92.36
3.82	316.15	14.63	153.57	138.94	4.08	321.85	14.72	107.45	92.72
4.36	315.75	14.27	562.24	547.98	4.66	322.75	14.41	107.45	93.04
4.91	315.55	13.95	562.24	548.29	5.24	324.15	14.15	107.45	93.29
5.45	315.95	13.69	562.24	548.55	5.81	325.15	13.92	107.45	93.53
5.99	316.15	13.45	562.24	548.79	6.39	326.65	13.72	107.45	93.73
6.53	316.15	13.22	562.24	549.02	6.97	326.95	13.50	107.45	93.95
7.61	316.35	12.83	562.24	549.41	8.12	328.35	13.14	107.45	94.31
8.69	316.55	12.49	562.24	549.75	9.27	329.35	12.82	107.45	94.63
9.77	316.65	12.19	562.24	550.06	10.42	330.15	12.53	107.45	94.92
10.84	316.75	11.91	562.24	550.33	11.56	330.95	12.27	107.45	95.18
11.91	316.95	11.67	562.24	550.57	12.70	331.95	12.05	107.45	95.40
12.98	317.15	11.45	562.24	550.79	13.84	332.65	11.84	107.45	95.61
15.11	317.55	11.07	562.24	551.17	16.11	333.95	11.46	107.45	95.99
					16.56	334.15	11.39	107.45	96.06
KBr	R^2 = 0.987				**LiCl**	R^2 =0.994			
0.11	306.65	23.27	196.51	173.23	0.55	309.75	19.33	104.49	85.15
0.22	308.45	21.63	196.51	174.87	1.10	313.15	17.74	104.49	86.74
0.33	309.95	20.69	196.51	175.81	1.65	316.05	16.84	104.49	87.64
0.43	311.35	20.04	196.51	176.47	2.19	318.15	16.19	104.49	88.29
0.54	311.15	19.45	196.51	177.05	2.74	320.15	15.70	104.49	88.78
0.65	312.35	19.06	196.51	177.45	3.29	321.95	15.31	104.49	89.18
0.76	313.35	18.72	196.51	177.79	3.83	323.65	14.97	104.49	89.51
0.87	314.25	18.42	196.51	178.09	4.38	324.65	14.66	104.49	89.83
0.98	314.65	18.14	196.51	178.37	4.92	325.35	14.38	104.49	90.11
1.08	314.95	17.88	196.51	178.63	5.46	326.15	14.13	104.49	90.36
1.19	315.25	17.65	196.51	178.86	6.01	327.75	13.94	104.49	90.55
1.30	315.85	17.45	196.51	179.06	6.55	328.25	13.72	104.49	90.76
1.52	316.75	17.10	196.51	179.41	7.63	329.35	13.35	104.49	91.14
1.73	316.95	16.75	196.51	179.75	8.71	330.45	13.03	104.49	91.46

1.95	317.25	16.46	196.51	180.05	9.79	331.95	12.77	104.49	91.72
2.16	317.75	16.21	196.51	180.30	10.87	332.95	12.52	104.49	91.97
2.38	318.25	15.98	196.51	180.53	11.94	333.65	12.28	104.49	92.20
2.60	318.65	15.77	196.51	180.74	13.02	334.25	12.07	104.49	92.42
3.03	319.85	15.42	196.51	181.09	15.15	335.35	11.68	104.49	92.80
3.14	320.15	15.34	196.51	181.16	15.68	335.55	11.59	104.49	92.89

NaCl	R^2 =0.994				**NH_4Cl**	R^2 =0.967, R^2 =0.979, R^2 =0.93			
0.55	309.75	19.33	104.31	84.98	0.54	309.55	19.35	104.78	85.43
1.10	313.15	17.74	104.31	86.57	1.09	313.95	17.82	104.78	86.97
1.65	316.05	16.84	104.31	87.47	1.63	318.15	16.98	104.78	87.80
2.19	318.15	16.19	104.31	88.12	2.17	322.35	16.44	45.50	29.06
2.74	320.15	15.70	104.31	88.61	2.71	325.35	15.99	45.50	29.51
3.29	321.95	15.31	104.31	89.01	3.25	329.95	15.72	45.50	29.78
3.83	323.65	14.97	104.31	89.34	3.79	332.85	15.43	45.50	30.07
4.38	324.65	14.66	104.31	89.65	4.33	334.05	15.12	22.22	7.10
4.92	325.35	14.38	104.31	89.94	4.87	338.05	14.97	22.22	7.25
5.46	326.15	14.13	104.31	90.19	5.40	339.45	14.73	22.22	7.48
6.01	327.75	13.94	104.31	90.38	5.94	346.35	14.76	22.22	7.46
6.55	328.25	13.72	104.31	90.59	6.48	351.05	14.71	22.22	7.51
7.63	329.35	13.35	104.31	90.96					
8.71	330.45	13.03	104.31	91.28					
9.79	331.95	12.77	104.31	91.55					
10.87	332.95	12.52	104.31	91.80					
11.94	333.65	12.28	104.31	92.03					
13.02	334.25	12.07	104.31	92.25					
15.15	335.35	11.68	104.31	92.63					