SUPPORTING INFORMATION

A Systematic Study on Physicochemical and Related Excess Properties of Several Binary Systems of Cyclic Ketones and Alkanediols (C_2-C_5)

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Table S1 Values of the total excess energy ΔA^E ($\mathrm{J \cdot mole^{-1}}$), excess energy for long-range interactions, ΔA_o^E, short-range homo interactions, $\Delta \mathrm{A}_{\mathrm{ii}}^{\mathrm{E}}$, and hetero interaction, $\Delta \mathrm{A}_{12}^{\mathrm{E}}$ with mole fraction (x_2) of the diols at T = 298.15 K and p = 0.1 MPa.

x_{CHO}	ΔA_o^E	ΔA_{ii}^E	ΔA_{12}^E	ΔA^E	x_{IP}	ΔA_o^E	ΔA_{ii}^E	ΔA_{12}^E	ΔA^E
	CHO (1) + 1,2ED (2)					*IP (1) + 1,2ED (2)*			
0.000	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00
0.088	26.18	8.13	-6.54	27.78	0.070	20.68	3.79	-3.65	20.82
0.170	38.13	26.31	-15.94	48.50	0.142	35.84	14.13	-11.71	38.26
0.233	41.63	44.91	-20.99	65.56	0.227	44.71	32.89	-20.54	57.06
0.316	40.67	72.29	-22.80	90.16	0.310	45.36	55.22	-24.69	75.89
0.412	33.63	102.91	-18.50	118.05	0.398	39.30	79.37	-23.67	95.00
0.496	25.43	124.52	-11.55	138.40	0.511	24.29	104.05	-15.71	112.63
--	--	--	--	--	0.628	10.19	115.88	-6.08	119.98
--	--	--	-	--	0.726	0.36	109.74	-0.31	109.78
--	--	--	--	--	0.799	-3.24	94.97	1.52	93.25
--	--	--	--	--	0.910	-3.30	53.53	1.03	51.27
1.000	0.00	0.00	0.00	0.00	1.000	0.00	0.00	0.00	0.00
	CHO (1) + 1,3PrD (2)					*IP (1) + 1,3PrD (2)*			
0.000	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00
0.083	13.87	5.42	-3.02	16.28	0.080	20.77	3.25	-2.50	21.53
0.138	22.69	13.08	-6.65	29.11	0.186	32.12	15.45	-8.51	39.06
0.264	22.72	38.55	-11.21	50.06	0.340	28.36	41.82	-12.08	58.10
0.381	13.88	64.66	-9.06	69.48	0.469	18.17	63.22	-8.84	72.55
0.489	4.28	84.26	-3.93	84.61	0.579	8.56	74.89	-4.14	79.31
0.590	-4.08	94.04	0.83	90.79	0.673	1.61	76.82	-0.66	77.77
0.683	-10.18	92.64	3.38	85.84	0.756	-2.84	70.46	1.06	68.68
0.770	-12.78	81.05	3.59	71.86	0.828	-4.90	57.91	1.33	54.34
0.852	-12.01	60.27	2.27	50.53	0.892	-4.98	40.88	0.85	36.75
0.928	-7.77	32.70	0.71	25.64	0.949	-2.71	21.65	0.27	19.20
1.000	0.00	0.00	0.00	0.00	1.000	0.00	0.00	0.00	0.00
	CHO (1) + 1,4BD (2)					*IP (1) + 1,4BD (2)*			
0.000	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00
0.072	9.73	3.64	-1.61	11.76	0.080	10.81	2.71	-1.47	12.05
0.135	11.59	10.88	-3.94	18.52	0.170	17.95	10.65	-4.41	24.19
0.226	7.43	25.77	-6.09	27.11	0.296	19.75	27.62	-7.09	40.28
0.334	0.31	46.39	-5.72	40.98	0.419	14.61	46.08	-6.42	54.28
0.438	-9.54	64.39	-2.76	52.09	0.528	7.96	59.59	-3.78	63.76
0.539	-16.46	76.63	0.50	60.67	0.627	1.50	65.76	-1.05	66.21
0.637	-20.04	80.76	2.68	63.40	0.716	-3.20	64.25	0.66	61.70
0.732	-19.45	75.80	3.22	59.57	0.797	-5.77	55.64	1.16	51.03
0.824	-16.04	60.57	2.33	46.86	0.870	-5.69	41.43	0.87	36.61
0.913	-9.35	35.44	0.84	26.92	0.938	-3.65	22.53	0.30	19.17
1.000	0.00	0.00	0.00	0.00	1.000	0.00	0.00	0.00	0.00
	CHO (1) + 1,5PD (2)					*IP (1) + 1,5PD (2)*			
0.000	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00
0.099	2.94	4.99	-1.21	6.72	0.075	1.15	1.77	-0.38	2.54
0.198	-0.02	16.82	-2.88	13.92	0.156	-0.51	6.42	-1.14	4.77
0.298	-8.69	32.60	-3.19	20.72	0.262	-5.56	15.48	-1.80	8.12
0.397	-17.64	48.63	-2.13	28.86	0.378	-12.27	26.93	-1.74	12.92
0.497	-24.68	62.07	-0.42	36.97	0.486	-17.11	36.61	-1.09	18.42
0.597	-28.37	69.89	1.11	42.64	0.586	-19.08	42.86	-0.33	23.45
0.698	-27.75	69.74	1.84	43.83	0.680	-18.92	44.58	0.24	25.90
0.798	-22.35	59.81	1.60	39.06	0.768	-16.54	41.29	0.47	25.23
0.879	-15.35	42.65	0.86	28.16	0.850	-12.67	32.54	0.39	20.27
0.945	-7.59	22.20	0.24	14.86	0.927	-6.86	19.01	0.15	12.30
1.000	0.00	0.00	0.00	0.00	1.000	0.00	0.00	0.00	0.00