

Table S1Experimental x_{IL} - T data for binary mixtures x_{IL} ionic liquid + (1- x_{IL}) alkan-1-ol.

x_{IL}	T/K	x_{IL}	T/K	x_{IL}	T/K
[bpy][BF ₄] (1) + pentan-1-ol (2)					
0.009	315.42	0.126	352.49	0.472	342.39
0.016	326.59	0.155	353.02	0.522	336.89
0.027	339.12	0.189	352.89	0.571	331.08
0.038	344.31	0.229	352.82	0.618	325.82
0.051	348.19	0.275	352.64	0.659	320.36
0.066	350.02	0.322	351.66	0.698	314.87
0.082	350.84	0.371	349.91	0.736	308.71
0.102	351.88	0.422	346.71		
[bpy][BF ₄] (1) + hexan-1-ol (2)					
0.008	320.21	0.188	375.91	0.585	356.73
0.018	336.62	0.239	376.20	0.631	350.64
0.027	351.45	0.297	376.27	0.675	344.21
0.043	361.57	0.357	375.19	0.716	337.96
0.069	368.83	0.418	373.02	0.753	331.32
0.102	372.49	0.478	368.21	0.789	324.88
0.142	374.68	0.534	362.58		
[bpy][BF ₄] (1) + heptan-1-ol (2)					
0.008	337.42	0.172	390.79	0.619	376.61
0.012	353.39	0.219	391.22	0.662	371.08
0.022	367.83	0.274	391.54	0.699	365.52
0.033	375.44	0.333	391.35	0.733	359.97
0.051	381.99	0.395	390.99	0.766	353.78
0.071	386.68	0.457	388.82	0.796	347.23
0.097	388.41	0.516	385.43		
0.132	389.77	0.570	381.25		
[b2mpy][BF ₄] (1) + hexan-1-ol (2)					
0.003	316.95	0.149	369.22	0.590	356.60
0.005	327.41	0.168	369.28	0.610	354.52
0.007	335.68	0.195	369.60	0.630	352.87
0.009	340.90	0.229	369.61	0.651	350.80
0.012	346.19	0.264	369.44	0.670	348.84
0.017	351.96	0.295	369.34	0.689	346.78
0.021	355.79	0.324	368.76	0.717	343.50
0.026	358.89	0.352	368.17	0.736	340.30
0.031	360.90	0.379	367.46	0.739	340.10
0.036	362.31	0.405	366.62	0.761	336.48
0.043	364.33	0.429	365.84	0.783	333.34
0.052	365.59	0.452	364.77	0.803	328.64
0.059	366.53	0.472	363.71	0.823	323.48
0.066	367.06	0.493	362.82	0.843	317.98
0.078	367.45	0.513	361.83	0.864	311.19
0.094	368.29	0.530	360.94	0.885	302.42
0.113	368.78	0.551	359.47	0.904	291.60
0.131	369.07	0.571	358.14		
[b2mpy][BF ₄] (1) + heptan-1-ol (2)					
0.003	321.17	0.196	388.94	0.659	370.05

0.005	334.34	0.224	388.89	0.688	366.74
0.008	349.98	0.250	388.82	0.715	362.37
0.016	357.64	0.278	388.49	0.743	357.59
0.024	365.56	0.307	388.18	0.767	353.89
0.032	377.13	0.338	388.04	0.790	349.08
0.044	380.25	0.368	387.59	0.813	344.18
0.053	381.98	0.399	386.83	0.836	337.86
0.059	383.85	0.430	385.57	0.858	330.96
0.079	385.98	0.463	384.15	0.882	322.62
0.098	387.23	0.522	381.07	0.908	311.67
0.124	388.34	0.563	378.11	0.929	296.91
0.141	388.57	0.603	375.28		
0.167	388.92	0.631	373.27		

[b2mpy][BF₄] (1) + octan-1-ol (2)

0.004	345.63	0.177	422.02	0.646	403.40
0.005	353.06	0.195	422.84	0.669	400.58
0.007	363.08	0.221	423.81	0.693	397.41
0.010	369.78	0.249	423.98	0.715	393.45
0.013	375.65	0.279	424.16	0.739	389.97
0.015	378.19	0.309	423.80	0.763	387.02
0.020	386.55	0.342	422.78	0.786	381.50
0.023	389.96	0.374	421.12	0.810	377.59
0.031	393.80	0.406	420.37	0.836	370.85
0.047	404.01	0.439	418.54	0.859	365.05
0.058	408.16	0.472	416.50	0.879	357.68
0.075	412.03	0.505	413.99	0.899	347.89
0.089	414.37	0.538	411.10	0.921	335.38
0.107	416.93	0.569	408.96	0.942	319.83
0.130	419.19	0.603	407.05	0.961	300.84
0.152	420.54	0.624	405.15		

[b2mpy][BF₄] (1) + nonan-1-ol (2)

0.005	362.09	0.831	412.84	0.931	356.26
0.010	379.84	0.849	407.61	0.944	341.71
0.014	391.98	0.867	399.47	0.956	328.31
0.017	397.03	0.886	389.41	0.967	313.91
0.023	411.52	0.896	383.10	0.978	295.27
0.785	435.64	0.909	372.86		
0.810	420.91	0.920	364.88		

[b3mpy][BF₄] (1) + pentan-1-ol (2)

0.006	312.08	0.146	332.89	0.471	322.59
0.013	316.91	0.172	332.83	0.512	319.43
0.020	322.49	0.199	332.62	0.553	315.74
0.029	325.22	0.228	332.38	0.592	310.98
0.040	328.33	0.259	331.81	0.629	305.82
0.050	330.36	0.292	331.04	0.664	300.51
0.063	331.39	0.326	330.12	0.695	295.14
0.081	332.46	0.361	328.57	0.724	289.96
0.101	332.81	0.398	326.83	0.751	284.57
0.123	333.02	0.435	324.76		

[b3mpy][BF₄] (1) + hexan-1-ol (2)

0.007	314.36	0.162	343.56	0.504	334.99
0.010	321.93	0.195	343.84	0.542	332.56
0.017	326.84	0.230	343.57	0.580	329.94
0.026	332.58	0.268	342.86	0.617	326.11
0.041	336.63	0.308	342.12	0.652	321.78
0.057	339.29	0.347	341.18	0.686	317.31
0.077	340.77	0.388	340.02	0.718	313.03
0.101	342.13	0.427	338.87	0.747	308.32
0.131	343.28	0.465	337.01	0.774	303.89

[b3mpy][BF₄] (1) + heptan-1-ol (2)

0.006	321.89	0.186	355.24	0.621	342.34
0.010	329.32	0.219	354.92	0.661	338.98
0.014	337.06	0.254	354.79	0.696	335.04
0.020	343.77	0.290	354.38	0.727	330.91
0.030	347.72	0.329	353.89	0.760	326.89
0.040	350.51	0.368	352.51	0.781	322.77
0.056	353.08	0.408	351.48	0.799	322.36
0.077	354.29	0.450	350.23	0.820	317.51
0.100	355.26	0.495	348.76	0.842	311.94
0.125	355.67	0.536	347.17	0.864	305.81
0.154	355.52	0.579	345.09	0.877	301.03

[b3mpy][BF₄] (1) + octan-1-ol (2)

0.004	323.68	0.144	374.08	0.625	364.61
0.006	335.13	0.165	374.30	0.655	361.56
0.008	341.62	0.194	374.52	0.683	359.61
0.011	347.69	0.225	374.76	0.712	357.48
0.014	350.97	0.253	374.92	0.741	354.66
0.016	353.49	0.283	374.96	0.767	351.07
0.019	355.84	0.311	375.03	0.789	347.94
0.023	358.75	0.326	374.73	0.801	345.58
0.030	362.97	0.342	375.01	0.814	343.02
0.033	364.75	0.346	374.60	0.826	340.10
0.038	365.61	0.368	373.89	0.842	336.28
0.043	367.33	0.393	373.56	0.856	332.64
0.054	368.86	0.411	373.30	0.867	329.74
0.061	370.12	0.431	372.79	0.876	326.32
0.066	370.47	0.451	372.33	0.887	321.94
0.073	371.17	0.473	371.35	0.898	317.89
0.076	371.51	0.495	370.59	0.911	311.94
0.085	372.38	0.521	369.82	0.921	306.86
0.096	372.72	0.544	368.97	0.930	301.93
0.106	373.24	0.568	367.85	0.940	296.44
0.125	373.55	0.597	366.03		

[b3mpy][BF₄] (1) + nonan-1-ol (2)

0.002	310.44	0.084	391.21	0.889	348.39
0.006	339.10	0.102	392.75	0.911	336.42
0.012	359.40	0.733	392.93	0.924	326.37
0.014	364.10	0.759	390.16	0.931	322.12
0.020	369.63	0.780	384.21	0.933	318.94
0.025	374.24	0.797	380.03	0.942	311.25

0.036	380.59	0.819	375.36	0.946	307.92
0.045	384.40	0.841	369.01	0.954	301.11
0.065	389.23	0.860	362.21		
[b4mpy][BF ₄] (1) + hexan-1-ol (2)					
0.007	308.93	0.099	338.22	0.502	334.21
0.015	317.62	0.138	340.13	0.565	330.80
0.022	323.24	0.185	341.07	0.625	326.12
0.031	328.38	0.239	341.02	0.676	321.35
0.042	331.31	0.302	339.89	0.721	317.18
0.055	334.29	0.369	338.86	0.758	312.97
0.073	336.30	0.436	336.91	0.791	308.51
[b4mpy][BF ₄] (1) + heptan-1-ol (2)					
0.008	317.87	0.185	352.49	0.644	342.28
0.017	331.42	0.244	352.78	0.694	339.41
0.031	339.58	0.312	351.48	0.737	335.90
0.046	344.93	0.384	350.27	0.774	331.48
0.067	347.79	0.456	348.98	0.807	327.21
0.097	350.22	0.525	347.06		
0.136	351.36	0.589	344.89		
[b4mpy][BF ₄] (1) + octan-1-ol (2)					
0.011	336.89	0.203	364.68	0.619	356.27
0.025	346.97	0.259	364.52	0.671	353.71
0.040	355.49	0.319	363.83	0.717	350.31
0.059	359.26	0.382	363.25	0.761	345.93
0.082	361.94	0.445	362.49	0.801	341.36
0.114	363.17	0.507	360.86		
0.153	364.20	0.565	358.79		
[b4mpy][BF ₄] (1) + nonan-1-ol (2)					
0.014	345.82	0.295	378.52	0.663	367.58
0.029	357.38	0.359	377.97	0.700	365.53
0.048	366.59	0.420	376.60	0.735	363.12
0.076	372.31	0.478	375.21	0.767	360.29
0.115	376.51	0.530	373.83	0.796	357.92
0.168	378.27	0.579	372.06		
0.230	379.08	0.623	369.69		
[b4mpy][BF ₄] (1) + decan-1-ol (2)					
0.015	355.29	0.198	390.86	0.604	382.60
0.031	368.52	0.241	390.98	0.657	379.53
0.049	378.77	0.289	390.16	0.701	376.44
0.069	384.91	0.337	390.05	0.739	373.72
0.091	389.18	0.385	389.83	0.773	370.89
0.118	390.51	0.469	388.03	0.807	367.97
0.153	390.69	0.541	385.38		
[hpy][BF ₄] (1) + propan-1-ol (2)					
0.007	277.56	0.086	290.95	0.273	287.77
0.016	284.43	0.104	291.12	0.295	286.48
0.028	288.31	0.126	291.25	0.321	284.49
0.037	289.34	0.149	291.22	0.347	282.74
0.045	289.84	0.179	290.94	0.381	280.32
0.058	290.51	0.214	290.25	0.415	277.68

0.072	290.76	0.245	289.09		
		[hpy][BF ₄] (1) + butan-1-ol (2)			
0.008	291.75	0.108	305.01	0.340	299.68
0.019	299.32	0.127	305.03	0.369	297.71
0.028	301.74	0.152	305.06	0.398	295.74
0.038	302.83	0.181	304.95	0.431	293.32
0.050	303.76	0.212	304.38	0.472	289.86
0.063	304.33	0.244	303.60	0.522	285.09
0.076	304.60	0.276	302.62	0.571	280.13
0.091	304.87	0.308	301.19		
		[hpy][BF ₄] (1) + pentan-1-ol (2)			
0.003	289.58	0.122	316.47	0.409	309.19
0.015	307.29	0.147	316.65	0.453	306.13
0.029	311.77	0.177	316.71	0.496	302.82
0.041	313.42	0.209	316.62	0.546	298.17
0.054	314.61	0.244	316.36	0.599	291.98
0.067	315.43	0.283	315.31	0.660	284.06
0.083	315.94	0.324	314.17	0.698	277.97
0.101	316.25	0.366	311.91		
		[hpy][BF ₄] (1) + hexan-1-ol (2)			
0.007	306.24	0.163	327.31	0.517	313.86
0.018	318.29	0.190	327.23	0.561	310.18
0.030	322.08	0.221	327.12	0.603	305.99
0.043	324.07	0.255	326.81	0.644	300.82
0.057	325.46	0.295	325.96	0.679	296.17
0.076	326.31	0.336	324.73	0.710	292.01
0.095	326.75	0.379	322.92	0.738	286.96
0.116	327.13	0.425	320.57		
0.140	327.27	0.472	317.41		
		[hpy][BF ₄] (1) + heptan-1-ol (2)			
0.009	318.88	0.269	337.62	0.621	315.21
0.030	330.33	0.311	336.78	0.654	311.53
0.050	335.02	0.351	335.43	0.688	307.07
0.067	336.34	0.393	333.87	0.720	302.52
0.090	336.94	0.435	331.21	0.752	296.93
0.119	337.46	0.477	328.34	0.780	291.79
0.153	337.98	0.514	325.66	0.806	286.04
0.188	338.11	0.551	322.42		
0.228	337.96	0.586	318.90		
		[hpy][BF ₄] (1) + octan-1-ol (2)			
0.011	329.23	0.275	349.06	0.632	328.49
0.025	339.37	0.313	347.94	0.662	324.74
0.044	344.39	0.352	346.91	0.691	320.17
0.064	346.76	0.391	345.39	0.719	315.96
0.089	348.04	0.429	344.02	0.747	311.45
0.116	348.78	0.466	341.8	0.773	307.32
0.144	349.17	0.501	339.77	0.797	304.11
0.174	349.29	0.536	336.73	0.819	299.84
0.204	349.36	0.570	334.11		
0.238	349.43	0.602	331.62		

[hpy][BF ₄] (1) + nonan-1-ol (2)					
0.012	340.67	0.271	359.09	0.621	341.68
0.035	353.46	0.305	358.60	0.659	338.26
0.060	357.19	0.340	357.76	0.689	335.35
0.087	358.26	0.377	356.54	0.719	331.59
0.115	358.77	0.420	355.12	0.748	328.02
0.146	358.96	0.463	353.08	0.774	323.91
0.179	359.19	0.506	350.71	0.801	319.49
0.208	359.24	0.546	347.97	0.825	315.54
0.238	359.28	0.585	345.09	0.846	310.87
[hpy][BF ₄] (1) + decan-1-ol (2)					
0.011	344.27	0.276	369.27	0.651	351.29
0.019	352.92	0.311	369.04	0.687	348.98
0.038	361.79	0.349	368.06	0.722	345.11
0.059	364.28	0.386	366.89	0.755	341.67
0.088	366.46	0.424	365.58	0.787	337.84
0.119	367.44	0.463	364.31	0.819	333.42
0.151	368.41	0.501	362.28	0.841	329.43
0.181	368.99	0.539	359.70	0.873	323.27
0.211	369.08	0.577	357.17		
0.244	369.16	0.613	354.42		

Table S2.

Coefficients obtained in the application of the models given by Eqs. 10 and 16 to LLE data measured for this work, showing the corresponding standard deviations in each case

	NRTL, Eq. (16)		Proposed model Eq. (10)		
	Δg_{12i}	Δg_{21i}	A_{0i}	A_{1i}	A_{2i}
$x_{IL}[bpy][BF_4] + (1-x_{IL})\text{ethanol, Ref. 7}$					
j=1	52.568	8.533	12877.086	-49506.955	2038.381
j=2	-1561.967	4192.705	-51.350	150.649	0.026
j=3	-8.626	-3.146			
		$\alpha = 0.19$			$k = 1.361$
s_x		0.011			0.006
$x_{IL}[bpy][BF_4] + (1-x_{IL})\text{propan-1-ol}$					
j = 1	-13.505	78.244	20249.892	-58933.939	5801.289
j = 2	2311.695	1732.729	-59.589	168.192	14.385
j = 3	0.693	-13.549			
		$\alpha = 0.160$			$k = 1.646$
s_x		0.011			0.007
$x_{IL}[bpy][BF_4] + (1-x_{IL})\text{butan-1-ol}$					
j = 1	-17.974	30.283	30338.525	-66004.848	3985.989
j = 2	3197.549	802.543	-90.398	176.245	16.043
j = 3	1.250	-4.873			
		$\alpha = 0.22$			$k = 1.774$
s_x		0.011			0.007
$x_{IL}[bpy][BF_4] + (1-x_{IL})\text{pentan-1-ol}$					
j = 1	50.297	30.416	21554.681	-51161.716	7891.662
j = 2	-547.467	868.327	-59.085	128.503	-2.070
j = 3	-8.420	-5.011			
		$\alpha = 0.24$			$k = 1.928$
s_x		0.017			0.013
$x_{IL}[bpy][BF_4] + (1-x_{IL})\text{hexan-1-ol}$					
j = 1	-19.247	29.298	22037.552	-40477.350	7375.928
j = 2	2319.479	1362.425	-55.949	92.430	-2.066
j = 3	2.086	-4.971			
		$\alpha = 0.19$			$k = 2.103$
s_x		0.014			0.012
$x_{IL}[bpy][BF_4] + (1-x_{IL})\text{heptan-1-ol}$					
j = 1	-35.726	109.230	24136.745	-51171.908	3941.571
j = 2	-2359.395	-160.677	-60.175	118.0326	0.814
j = 3	9.296	-17.801			
		$\alpha = 0.25$			$k = 2.092$
s_x		0.0175			0.014
$x_{IL}[b2mpy][BF_4] + (1-x_{IL})\text{ethanol}$					
j = 1	14.275	30.441	15045.674	-46852.507	1286.934
j = 2	550.664	3999.774	-59.207	139.187	1.774
j = 3	-3.069	-6.964			
		$\alpha = 0.26$			$k = 1.251$
s_x		0.005			0.003
$x_{IL}[b2mpy][BF_4] + (1-x_{IL})\text{propan-1-ol}$					
j = 1	85.807	35.786	16465.339	-46057.434	2554.073

j = 2	-1327.708	1865.225	-47.579	130.804	13.510
j = 3	-14.301	-6.549			
		$\alpha = 0.30$			$k = 1.349$
S_x		0.009			0.009
$x_{IL}[b2mpy][BF_4] + (1-x_{IL})butan-1-ol$					
j = 1	98.912	61.301	21243.328	-51411.568	1833.036
j = 2	258.470	2382.785	-61.266	139.849	9.769
j = 3	-17.201	-11.178			
		$\alpha = 0.37$			$k = 1.388$
S_x		0.005			0.007
$x_{IL}[b2mpy][BF_4] + (1-x_{IL})pentan-1-ol$					
j = 1	-49.263	60.715	35738.115	-13849.698	-14829.682
j = 2	5072.936	590.351	-105.539	26.462	43.442
j = 3	5.802	-10.005			
		$\alpha = 0.23$			$k = 1.52$
S_x		0.013			0.011
$x_{IL}[b2mpy][BF_4] + (1-x_{IL})hexan-1-ol$					
j = 1	98.951	122.700	28777.517	-21967.434	-7387.317
j = 2	-2430.555	-2050.279	-77.705	49.797	23.587
j = 3	-15.905	-18.991			
		$\alpha = 0.15$			$k = 1.472$
S_x		0.008			0.011
$x_{IL}[b2mpy][BF_4] + (1-x_{IL})heptan-1-ol$					
j = 1	131.589	212.644	26619.916	-7959.644	-15079.664
j = 2	-3809.993	-6228.601	-68.699	11.491	40.135
j = 3	-20.419	-32.518			
		$\alpha = 0.31$			$k = 1.483$
S_x		0.010			0.012
$x_{IL}[b2mpy][BF_4] + (1-x_{IL})octan-1-ol$					
j = 1	58.590	82.193	9923.195	-12434.289	-269.756
j = 2	-1400.150	-1252.775	-19.682	21.895	7.087
j = 3	-9.345	-12.442			
		$\alpha = 0.14$			$k = 1.594$
S_x		0.004			0.010
$x_{IL}[b2mpy][BF_4] + (1-x_{IL})nonan-1-ol$					
j = 1	36.655	59.135	23160.746	-6568.995	-1669.473
j = 2	2564.014	1708.019	-46.739	4.385	-6.060
j = 3	-3.182	-9.891			
		$\alpha = 0.17$			$k = 1.774$
S_x		0.003			0.004
$x_{IL}[b3mpy][BF_4] + (1-x_{IL})ethanol$					
j = 1	220.160	471.758	13901.767	-44620.273	3167.936
j = 2	-9432.850	-10310.785	-64.984	129.862	13.457
j = 3	-30.296	-56.547			
		$\alpha = 0.05$			$k = 1.315$
S_x		0.008			0.004
$x_{IL}[b3mpy][BF_4] + (1-x_{IL})propan-1-ol$					
j = 1	-9.922	47.480	16291.096	-57204.629	2402.545
j = 2	1478.464	1657.276	-60.367	168.629	3.371
j = 3	0.575	-8.374			

		$\alpha = 0.19$			$k = 1.4152$
S_X		0.014			0.005
		$x_{IL}[b3mpy][BF_4] + (1-x_{IL})butan-1-ol$			
$j = 1$	69.097	12.554	19606.244	-42382.326	1861.959
$j = 2$	-1308.778	-345.273	-60.088	116.806	13.143
$j = 3$	-11.549	-1.151			
		$\alpha = 0.18$			$k = 1.461$
S_X		0.022			0.005
		$x_{IL}[b3mpy][BF_4] + (1-x_{IL})pentan-1-ol$			
$j = 1$	98.726	65.147	25334.521	-59576.562	3338.480
$j = 2$	-3160.672	702.086	-73.949	163.678	10.291
$j = 3$	-15.865	-10.459			
		$\alpha = 0.11$			$k = 1.593$
S_X		0.018			0.009
		$x_{IL}[b3mpy][BF_4] + (1-x_{IL})hexan-1-ol$			
$j = 1$	-50.313	24.629	22390.153	-51140.714	4796.1309
$j = 2$	6832.541	2802.262	-61.606	137.205	0.131
$j = 3$	5.202	-5.122			
		$\alpha = 0.37$			$k = 1.6046$
S_X		0.017			0.007
		$x_{IL}[b3mpy][BF_4] + (1-x_{IL})heptan-1-ol$			
$j = 1$	130.872	214.938	26785.896	-40675.377	4230.034
$j = 2$	-2721.073	-1083.418	-71.926	102.721	1.115
$j = 3$	-21.328	-35.166			
		$\alpha = 0.15$			$k = 1.595$
S_X		0.009			0.017
		$x_{IL}[b3mpy][BF_4] + (1-x_{IL})octan-1-ol$			
$j = 1$	149.135	218.048	34832.118	-39195.338	1573.616
$j = 2$	-5339.569	-7282.007	-91.430	94.954	1.609
$j = 3$	-22.919	-32.893			
		$\alpha = 0.16$			$k = 1.667$
S_X		0.011			0.009
		$x_{IL}[b3mpy][BF_4] + (1-x_{IL})nonan-1-ol$			
$j = 1$	38.468	79.069	31555.931	-22508.889	-42.538
$j = 2$	-2004.613	1377.375	-79.621	53.218	-7.765
$j = 3$	-0.358	-13.330			
		$\alpha = 0.15$			$k = 1.969$
S_X		0.006			0.004
		$x_{IL}[b4mpy][BF_4] + (1-x_{IL})ethanol$			
$j = 1$	123.927	69.793	16996.399	-52881.483	2469.339
$j = 2$	-3557.286	7072.680	-71.709	167.532	3.905
$j = 3$	-9.249	-10.118			
		$\alpha = 0.11$			$k = 1.265$
S_X		0.002			0.001
		$x_{IL}[b4mpy][BF_4] + (1-x_{IL})propan-1-ol$			
$j = 1$	115.399	107.300	11247.923	-63659.127	1363.994
$j = 2$	-5080.388	1584.871	-39.264	194.583	8.849
$j = 3$	-17.942	-18.295			
		$\alpha = 0.10$			$k = 1.322$
S_X		0.021			0.004

		$x_{IL}[b4mpy][BF_4] + (1-x_{IL})butan-1-ol$			
$j = 1$	76.254	95.741	13796.899	-61946.544	3459.059
$j = 2$	-3635.580	2372.835	-40.391	182.636	5.754
$j = 3$	-11.803	-16.715			
		$\alpha = 0.10$			$k = 1.448$
S_x		0.023			0.006
		$x_{IL}[b4mpy][BF_4] + (1-x_{IL})pentan-1-ol$			
$j = 1$	-111.973	101.319	19296.115	-29854.594	1721.997
$j = 2$	-17438.311	471.380	-58.016	80.746	1.313
$j = 3$	31.440	-17.282			
		$\alpha = 0.29$			$k = 1.552$
S_x		0.025			0.009
		$x_{IL}[b4mpy][BF_4] + (1-x_{IL})hexan-1-ol$			
$j = 1$	95.441	99.734	14938.849	-36274.565	4579.864
$j = 2$	-9029.022	910.039	-38.948	97.287	-1.598
$j = 3$	-10.031	-17.108			
		$\alpha = 0.29$			$k = 1.535$
S_x		0.036			0.011
		$x_{IL}[b4mpy][BF_4] + (1-x_{IL})heptan-1-ol$			
$j = 1$	-25.638	12.558	12187.696	-47813.858	5145.309
$j = 2$	-711.332	4924.092	-28.660	127.437	-2.754
$j = 3$	7.446	-4.085			
		$\alpha = 0.23$			$k = 1.559$
S_x		0.060			0.024
		$x_{IL}[b4mpy][BF_4] + (1-x_{IL})octan-1-ol$			
$j = 1$	37.763	1.799	17747.573	-47399.356	2733.106
$j = 2$	2651.271	4818.849	-43.485	121.215	3.191
$j = 3$	-7.728	-1.994			
		$\alpha = 0.22$			$k = 1.647$
S_x		0.017			0.016
		$x_{IL}[b4mpy][BF_4] + (1-x_{IL})nonan-1-ol$			
$j = 1$	62.999	-5.235	17019.713	-49313.947	3430.373
$j = 2$	2867.880	6048.618	-38.696	119.627	4.951
$j = 3$	-6.837	-1.367			
		$\alpha = 0.21$			$k = 1.819$
S_x		0.053			0.014
		$x_{IL}[b4mpy][BF_4] + (1-x_{IL})decan-1-ol$			
$j = 1$	-6.531	241.929	197307.688	4007.982	-1561.558
$j = 2$	-7080.066	-2805.481	-530.744	-21.909	-16.975
$j = 3$	6.027	-38.914			
		$\alpha = 0.27$			$k = 2.022$
S_x		0.025			0.023
		$x_{IL}[hpy][BF_4] + (1-x_{IL})propan-1-ol$			
$j = 1$	25.851	32.534	15071.581	-70957.889	12676.921
$j = 2$	-371.282	5731.898	-43.637	224.929	1.055
$j = 3$	-4.727	-8.182			
		$\alpha = 0.18$			$k = 1.626$
S_x		0.008			0.008
		$x_{IL}[hpy][BF_4] + (1-x_{IL})butan-1-ol$			
$j = 1$	123.339	109.348	32232.307	-78616.011	7632.485

$j = 2$	-1417.366	1456.885	-107.803	235.786	8.259
$j = 3$	-20.927	-19.221			
		$\alpha = 0.31$			$k = 1.696$
S_x		0.006			0.008
		$x_{IL}[hpy][BF_4] + (1 - x_{IL})pentan-1-ol$			
$j = 1$	105.682	59.511	27390.357	-67822.637	6109.040
$j = 2$	-3192.990	2311.675	-89.081	195.139	2.592
$j = 3$	-16.802	-10.886			
		$\alpha = 0.22$			$k = 1.811$
S_x		0.013			0.010
		$x_{IL}[hpy][BF_4] + (1 - x_{IL})hexan-1-ol$			
$j = 1$	80.178	-9.295	32091.615	-66550.189	3161.147
$j = 2$	-1421.048	3991.018	-99.695	185.348	11.056
$j = 3$	-13.381	0.331			
		$\alpha = 0.18$			$k = 1.837$
S_x		0.019			0.012
		$x_{IL}[hpy][BF_4] + (1 - x_{IL})heptan-1-ol$			
$j = 1$	-29.519	18.568	30455.305	-55198.993	4744.457
$j = 2$	3171.143	1989.328	-89.475	146.564	6.045
$j = 3$	3.416	-3.687			
		$\alpha = 0.29$			$k = 1.849$
S_x		0.024			0.011
		$x_{IL}[hpy][BF_4] + (1 - x_{IL})octan-1-ol$			
$j = 1$	23.143	79.757	35366.732	-75468.128	10536.923
$j = 2$	-308.482	527.547	-99.032	198.172	-5.217
$j = 3$	-4.174	-12.969			
		$\alpha = 0.11$			$k = 1.975$
S_x		0.023			0.010
		$x_{IL}[hpy][BF_4] + (1 - x_{IL})nonan-1-ol$			
$j = 1$	37.286	45.126	38042.516	-133753.682	19603.827
$j = 2$	133.345	1950.360	-90.679	343.074	5.102
$j = 3$	-6.632	-7.863			
		$\alpha = 0.16$			$k = 2.404$
S_x		0.017			0.012
		$x_{IL}[hpy][BF_4] + (1 - x_{IL})decan-1-ol$			
$j = 1$	79.431	17.453	54401.214	-172688.781	28317.989
$j = 2$	-294.558	2108.084	-128.676	429.478	-0.962
$j = 3$	-13.302	-3.456			
		$\alpha = 0.32$			$k = 2.794$
S_x		0.019			0.008