

Electronic Supplementary Information (ESI)

Table 1. Bubble points of the system CO₂+HOPMImNO₃+CaL B for a concentration of 0.5 U Cal B/mL HOPMImNO₃ (3% wt, 40 mg/mL)

C _{CaL B} = 3.03% wt		C _{CaL B} = 3.04% wt		C _{CaL B} = 3.03% wt		C _{CaL B} = 3.03% wt	
X _{CO2} =	5.18%	X _{CO2} =	10.35%	X _{CO2} =	14.73%	X _{CO2} =	20.65%
T (K)	P (MPa)	T (K)	P (MPa)	T (K)	P (MPa)	T (K)	P (MPa)
303.38	0.797	303.44	1.820	303.52	2.533	303.52	3.966
308.58	0.873	308.54	2.000	308.71	2.757	308.51	4.442
313.51	0.972	313.35	2.180	313.54	3.133	313.38	4.990
318.46	1.053	318.49	2.360	318.58	3.427	318.51	5.512
323.54	1.158	323.55	2.575	323.50	3.788	323.52	6.146
328.55	1.248	328.50	2.790	328.60	4.133	328.53	6.752
333.51	1.353	333.53	3.020	333.51	4.508	333.49	7.467
338.50	1.458	338.57	3.250	338.62	4.923	338.63	8.212
343.58	1.573	343.59	3.505	343.55	5.323	343.56	8.997
348.58	1.688	348.52	3.760	348.57	5.758	348.60	9.877

Table 2. Bubble points of the system CO₂+HOPMImNO₃+CaL B for a concentration of 1 U Cal B/mL HOPMImNO₃ (6 % wt, 80 mg/mL)

C _{CaL B} = 6.91% wt		C _{CaL B} = 5.70% wt		C _{CaL B} = 6.06% wt		C _{CaL B} = 6.91% wt		C _{CaL B} = 5.17% wt		C _{CaL B} = 7.62% wt	
X _{CO2} =	5.24%	X _{CO2} =	10.37%	X _{CO2} =	10.21%	X _{CO2} =	11.24%	X _{CO2} =	15.41%	X _{CO2} =	21.03%
T (K)	P (MPa)	T (K)	P (MPa)	T (K)	P (MPa)	T (K)	P (MPa)	T (K)	P (MPa)	T (K)	P (MPa)
303.50	0.773	303.59	1.78	303.57	1.738	303.43	1.895	303.53	2.706	303.49	4.193
308.52	0.863	308.49	1.95	308.57	1.903	308.54	2.085	308.55	3.001	308.50	4.693
313.51	0.958	313.51	2.16	313.51	2.093	313.51	2.305	313.57	3.331	313.51	5.261
318.49	1.043	318.63	2.35	318.51	2.293	318.41	2.515	318.58	3.656	318.47	5.843
323.46	1.139	323.52	2.57	323.48	2.503	323.44	2.770	323.56	4.036	323.45	6.488
328.48	1.238	328.57	2.78	328.54	2.718	328.46	3.010	328.52	4.406	328.52	7.198
333.57	1.344	333.57	3.02	333.55	2.938	333.54	3.275	333.54	4.841	333.54	7.952
338.48	1.438	338.57	3.26	338.57	3.198	338.53	3.540	338.54	5.236	338.50	8.733
343.54	1.549	343.45	3.52	343.61	3.458	343.43	3.820	343.48	5.681	343.53	9.588
348.52	1.673	348.52	3.77	348.54	3.698	348.59	4.115	348.58	6.146	348.54	10.492

Table 3. Bubble points of the system CO₂+HOPMImNO₃+CaL B for a concentration of 1.5 U Cal B/mL HOPMImNO₃ (9.30 % wt, 128 mg/mL)

C_{CaLB} =	9.30% wt	C_{CaLB} =	9.30% wt	C_{CaLB} =	9.30% wt	C_{CaLB} =	9.30% wt
X_{CO2}=	5.09%	X_{CO2}=	10.29%	X_{CO2}=	16.21%	X_{CO2}=	20.52%
T (K)	P (MPa)	T (K)	P (MPa)	T (K)	P (MPa)	T (K)	P (MPa)
0.972	313.44	2.125	313.47	3.664	313.50	5.069	313.53
1.147	323.44	2.555	323.55	4.429	323.49	6.259	323.60
1.352	333.48	3.010	333.52	2.974	303.53	7.589	333.56
1.572	343.54	3.510	343.57	3.299	308.57	4.020	303.48
1.687	348.57	3.770	348.49	4.049	318.56	4.515	308.58
0.797	303.48	1.750	303.52	4.810	328.48	5.615	318.57
0.882	308.57	1.935	308.57	5.250	333.54	6.870	328.49
1.057	318.56	2.335	318.51	5.700	338.49	8.314	338.57
1.247	328.54	2.775	328.53	6.175	343.56	9.100	343.56
1.462	338.56	3.255	338.49	6.666	348.58	9.935	348.60

Table 4. Bubble points of the system CO₂+HOPMImNO₃+CaL B for a concentration of 2 U Cal B/mL HOPMImNO₃ (11.9 % wt, 171 mg/mL)

C_{CaLB} =	11.86% wt	C_{CaLB} =	11.86% wt	C_{CaLB} =	11.86% wt	C_{CaLB} =	11.86% wt
X_{CO2}=	5.02%	X_{CO2}=	10.33%	X_{CO2}=	15.52%	X_{CO2}=	19.93%
T (K)	P (MPa)	T (K)	P (MPa)	T (K)	P (MPa)	T (K)	P (MPa)
303.54	0.848	303.48	1.791	303.43	2.947	303.56	4.162
308.75	0.933	308.49	1.957	308.49	3.231	308.36	4.497
313.56	0.998	313.47	2.146	313.57	3.571	313.44	5.057
318.47	1.088	318.54	2.347	318.51	3.931	318.59	5.502
323.48	1.203	323.54	2.566	323.54	4.311	323.55	6.117
328.51	1.278	328.59	2.792	328.56	4.711	328.55	6.622
333.52	1.398	333.54	3.027	333.49	5.162	333.57	7.317
338.51	1.483	338.50	3.262	338.47	5.611	338.45	7.887
343.56	1.598	343.54	3.532	343.62	6.047	343.55	8.612
348.52	1.693	348.58	3.777	348.55	6.511	348.44	9.267