Supplementary Materials

Table S1. The calculated results of TPC for $L_0 = 5$ g feed with $(X_B)_0 = 0.93$.

n	$\boldsymbol{T}$(℃)	**P(Pa)**	$(\boldsymbol{X_B})_n$	$(\boldsymbol{Z_B})_n$	$\boldsymbol{L_n}$(g)	$\boldsymbol{S_n}$(g)	$\boldsymbol{S_{tot,n}}$(g)	$\boldsymbol{V_n}$(g)	$\boldsymbol{V_{tot,n}}$(g)
0	39.7	24.5	0.930	0.981	5	0	0	0	0
1	38.7	22.1	0.908	0.971	2.913	1.761	1.761	0.326	0.326
2	37.7	19.9	0.886	0.960	1.885	0.867	2.628	0.160	0.486
3	36.7	18.0	0.864	0.949	1.309	0.486	3.114	0.090	0.576
4	35.7	16.2	0.841	0.939	0.956	0.298	3.412	0.055	0.631
5	34.7	14.6	0.819	0.928	0.726	0.195	3.607	0.036	0.667
6	33.7	13.1	0.797	0.917	0.568	0.134	3.740	0.025	0.692
7	32.7	11.8	0.775	0.907	0.455	0.095	3.836	0.018	0.710
8	31.7	10.6	0.753	0.896	0.371	0.070	3.906	0.013	0.723
9	30.7	9.5	0.731	0.886	0.308	0.053	3.959	0.010	0.733
10	29.7	8.5	0.709	0.875	0.260	0.041	4.000	0.008	0.741

Table S2. The calculated results of TPC for $L_0 = 5$ g feed with $(X_B)_0 = 0.95$.

n	$\boldsymbol{T}$(℃)	$\boldsymbol{P}$**(Pa)**	$(\boldsymbol{X_B})_n$	$(\boldsymbol{Z_B})_n$	$\boldsymbol{L_n}$**(g)**	$\boldsymbol{S_n}$**(g)**	$\boldsymbol{S_{tot,n}}$**(g)**	$\boldsymbol{V_n}$**(g)**	$\boldsymbol{V_{tot,n}}$**(g)**
0	40.6	26.9	0.950	0.991	5	0	0	0	0
1	39.6	24.3	0.928	0.98	2.502	2.108	2.108	0.390	0.390
2	38.6	21.9	0.906	0.97	1.477	0.865	2.973	0.160	0.550
3	37.6	19.7	0.884	0.959	0.964	0.433	3.406	0.080	0.630
4	36.6	17.8	0.861	0.948	0.673	0.245	3.651	0.045	0.675
5	35.6	16.0	0.839	0.938	0.494	0.151	3.803	0.028	0.703
6	34.6	14.4	0.817	0.927	0.376	0.099	3.902	0.018	0.721
7	33.6	13.0	0.795	0.916	0.295	0.069	3.971	0.013	0.734
8	32.6	11.7	0.773	0.906	0.237	0.049	4.020	0.009	0.743
9	31.6	10.5	0.751	0.895	0.194	0.036	4.056	0.007	0.750
10	30.6	9.4	0.729	0.884	0.161	0.027	4.083	0.005	0.755
11	29.6	8.4	0.706	0.874	0.136	0.021	4.105	0.004	0.759

Table S3. The calculated results of TPC for $L_0 = 5$ g feed with $(X_B)_0 = 0.97$.

n	$\boldsymbol{T}$(℃)	$\boldsymbol{P}$**(Pa)**	$(\boldsymbol{X_B})_{\boldsymbol{n}}$	$(\boldsymbol{Z_B})_{\boldsymbol{n}}$	$\boldsymbol{L_n}$**(g)**	$\boldsymbol{S_n}$**(g)**	$\boldsymbol{S_{tot,n}}$**(g)**	$\boldsymbol{V_n}$**(g)**	$\boldsymbol{V_{tot,n}}$**(g)**
0	41.6	29.7	0.970	1.000	5	0	0	0	0
1	40.6	26.9	0.948	0.990	1.881	2.632	2.632	0.487	0.487
2	39.6	24.3	0.926	0.979	0.960	0.778	3.409	0.144	0.631
3	38.6	21.9	0.904	0.969	0.573	0.327	3.736	0.060	0.691
4	37.6	19.7	0.882	0.958	0.376	0.166	3.902	0.031	0.722
5	36.6	17.8	0.859	0.947	0.264	0.095	3.996	0.018	0.740
6	35.6	16.0	0.837	0.937	0.195	0.059	4.055	0.011	0.751
7	34.6	14.4	0.815	0.926	0.149	0.039	4.094	0.007	0.758
8	33.6	13.0	0.793	0.915	0.117	0.027	4.121	0.005	0.763
9	32.6	11.7	0.771	0.905	0.094	0.019	4.140	0.004	0.767
10	31.6	10.5	0.749	0.894	0.077	0.014	4.154	0.003	0.770
11	30.6	9.4	0.727	0.884	0.064	0.011	4.165	0.002	0.772
12	29.6	8.4	0.704	0.873	0.054	0.008	4.174	0.002	0.774