

Supporting Information

High Pressure Phase Equilibrium Data Containing Carbon Dioxide, Dichloromethane and ϵ -Caprolactone

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Table S1. Absolute values of composition for the ternary system carbon dioxide (1) + ϵ -caprolactone (2) + dichloromethane (3) for the mass ratio dichloromethane / ϵ -caprolactone 0.5:1. Mass fractions related to the data presented in Table 2.

w_1'	w_1	w_2	w_3
0.3671	0.2788	0.4807	0.2405
0.4221	0.3272	0.4480	0.2247
0.5006	0.4003	0.3993	0.2004
0.5360	0.4353	0.3769	0.1878
0.5715	0.4702	0.3526	0.1772
0.6070	0.5073	0.3284	0.1643
0.6454	0.5482	0.3012	0.1506
0.6867	0.5943	0.2711	0.1347

w_1' = mass fraction of carbon dioxide to the ternary carbon dioxide (1) + ϵ -caprolactone (2) + dichloromethane (3) in dichloromethane free basis.

w_1 = absolute mass fraction for the carbon dioxide.

w_2 = absolute mass fraction for the ϵ -caprolactone.

w_3 = absolute mass fraction for the dichloromethane.

Table S2. Absolute values of composition for the ternary system carbon dioxide (1) + ϵ -caprolactone (2) + dichloromethane (3) for the mass ratio dichloromethane / ϵ -caprolactone 1:1. Mass fractions related to the data presented in Table 4.

w_1'	w_1	w_2	w_3
0.3681	0.2255	0.3870	0.3875
0.5022	0.3352	0.3322	0.3325
0.6066	0.4347	0.2819	0.2834
0.6453	0.4766	0.2620	0.2615
0.6638	0.4969	0.2517	0.2515
0.6872	0.5249	0.2389	0.2362
0.7312	0.5764	0.2119	0.2117
0.7728	0.6279	0.1846	0.1875
0.8010	0.6681	0.1660	0.1659

w_1' = mass fraction of carbon dioxide to the ternary carbon dioxide (1) + ϵ -caprolactone (2) + dichloromethane (3) in dichloromethane free basis.

w_1 = absolute mass fraction for the carbon dioxide.

w_2 = absolute mass fraction for the ϵ -caprolactone.

w_3 = absolute mass fraction for the dichloromethane.

Table S3. Absolute values of composition for the ternary system carbon dioxide (1) + ϵ -caprolactone (2) + dichloromethane (3) for the mass ratio dichloromethane / ϵ -caprolactone 2:1. Mass fractions related to the data presented in Table 5.

w_1'	w_1	w_2	w_3
0.5012	0.2485	0.2473	0.5042
0.6342	0.3664	0.2113	0.4223
0.6857	0.4189	0.1920	0.3891
0.7296	0.4731	0.1754	0.3516
0.7528	0.5014	0.1646	0.3340
0.7783	0.5395	0.1536	0.3069
0.8011	0.5719	0.1420	0.2861
0.8260	0.6129	0.1291	0.2580
0.8799	0.7091	0.0968	0.1942
0.9376	0.8337	0.0555	0.1108

w_1' = mass fraction of carbon dioxide to the ternary carbon dioxide (1) + ϵ -caprolactone (2) + dichloromethane (3) in dichloromethane free basis.

w_1 = absolute mass fraction for the carbon dioxide.

w_2 = absolute mass fraction for the ϵ -caprolactone.

w_3 = absolute mass fraction for the dichloromethane.