Table 2. Experimental LLE Data of Cyclohexane (1) + Ethylbenzene (2) + Sulfolane (3) System at (303.15, 313.15, and 323.15) K

feed mass fractions			mass fractions in upper layer (cyclohexane-rich phase)			mass fractions in lower layer (sulfolane-rich phase)		
w_1	w_2	w_3	w_1	w_2	w_3	w_1	w_2	w_3
				$T = 303.15$ K				
0.3876	0.0	0.6124	0.9978	0.0	0.0022	0.0290	0.0	0.9710
0.3654	0.0407	0.5940	0.9186	0.0757	0.0057	0.0292	0.0169	0.9539
0.3539	0.0801	0.5660	0.8425	0.1489	0.0086	0.0315	0.0334	0.9351
0.3296	0.1470	0.5234	0.7286	0.2574	0.0140	0.0304	0.0606	0.9090
0.3058	0.2053	0.4889	0.6238	0.3533	0.0228	0.0332	0.0869	0.8800
0.2885	0.2574	0.4545	0.5494	0.4167	0.0339	0.0326	0.1044	0.8630
0.2686	0.2994	0.4320	0.4856	0.4766	0.0377	0.0308	0.1335	0.8357
				$T = 313.15$ K				
0.3812	0.0	0.6188	0.9947	0.0	0.0053	0.0269	0.0	0.9731
0.3634	0.0416	0.5951	0.9090	0.0834	0.0076	0.0308	0.0186	0.9506
0.3474	0.0776	0.5749	0.8369	0.1528	0.0103	0.0321	0.0347	0.9333
0.3200	0.1479	0.5321	0.7214	0.2604	0.0181	0.0324	0.0638	0.9038
0.3093	0.1794	0.5110	0.6661	0.3122	0.0217	0.0327	0.0780	0.8893
0.2993	0.2047	0.4956	0.6237	0.3488	0.0275	0.0346	0.0901	0.8752
0.2790	0.2572	0.4638	0.5466	0.4139	0.0394	0.0355	0.1152	0.8493
0.2617	0.3022	0.4361	0.4747	0.4786	0.0467	0.0321	0.1386	0.8292

Data Summary entry for this table

Table #: 2
System type (Pure, Binary, Ternary, Reaction): Ternary
Chemical System(s): cyclohexane + ethylbenzene + sulfolane
Data Type: *LLE Tie-Line Data*
Experimental Method:
Composition: GC
Temperature: Hg in glass thermometer
State Variables and Constraints: temperature T, pressure $p = 1$ *atm*, mass fractions of cyclohexane w_1, mass fractions of ethylbenzene w_2, mass fractions of sulfolane w_3
Standard Uncertainty (k = 1) for each Variable and Constraint:
$\sigma(T) = 0.1$ K; $\sigma(p) = 5\%$; $\sigma(w) = 0.001$