Volumetric and Ultrasonic Studies of 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate Ionic Liquid with Methanol, Ethanol, 1-Propanol, and Water at Several Temperatures. Ernesto Vercher, A. Vicent Orchillés, Pablo J. Miguel, and Antoni Martínez-Andreu,* *J. Chem. Eng. Data* **2007**, *52*, 1468−1482.

Page 1471. In Table 4, the densities, speeds of sound, and isentropic compressibilities of mixtures are in error. The correct values are given below.

Table 4. Density ρ, Excess Molar Volume V_m^E, Speed of Sound u, Excess Speed of Sound u^E, Isentropic Compressibility κ_S, and Excess Isentropic Compressibility κ_S^E for the Binary System [emim][triflate] (1) + Ethanol (2) at T = (278.15 to 328.15) K

x_1	ρ / kg·m^{-3}	V_m^E / cm^3·mol^{-1}	u / m·s^{-1}	u^E / m·s^{-1}	κ_S / TPa^{-1}	κ_S^E / TPa^{-1}	x_1	ρ / kg·m^{-3}	V_m^E / cm^3·mol^{-1}	u / m·s^{-1}	u^E / m·s^{-1}	κ_S / TPa^{-1}	κ_S^E / TPa^{-1}
					T = 278.15 K								
0.0499	892.80	−0.263	1232.96	29.57	736.79	−39.86	0.5932	1299.43	−0.367	1416.18	63.43	383.72	−37.99
0.1000	965.56	−0.378	1252.69	47.60	659.99	−57.02	0.6928	1331.10	−0.300	1435.87	49.87	364.38	−27.50
0.1503	1025.77	−0.439	1273.50	60.44	601.11	−65.20	0.8020	1359.80	−0.201	1454.20	32.80	347.76	−16.69
0.1999	1075.78	−0.474	1294.55	69.91	554.68	−68.69	0.8517	1371.25	−0.158	1461.89	24.82	341.24	−12.22
0.3009	1156.45	−0.502	1333.90	79.65	485.99	−66.57	0.9017	1382.03	−0.127	1468.98	16.39	335.31	−7.86
0.4001	1216.18	−0.463	1366.81	79.84	440.13	−58.42	0.9492	1391.38	−0.077	1475.88	8.83	329.95	−4.13
0.5015	1264.18	−0.416	1394.83	73.29	406.58	−47.90							
					T = 288.15 K								
0.0499	884.25	−0.288	1201.13	31.78	783.87	−46.89	0.5932	1290.81	−0.400	1392.43	68.83	399.57	−43.95
0.1000	956.95	−0.415	1223.08	51.46	698.56	−67.19	0.6928	1322.51	−0.325	1412.31	54.31	379.09	−31.84
0.1503	1017.12	−0.482	1245.56	65.53	633.72	−76.76	0.8020	1351.24	−0.216	1430.73	35.96	361.54	−19.39
0.1999	1067.12	−0.521	1267.89	75.89	582.94	−80.72	0.8517	1362.70	−0.169	1438.29	27.19	354.74	−14.17
0.3009	1147.78	−0.550	1308.55	86.17	508.82	−77.60	0.9017	1373.50	−0.135	1445.46	18.16	348.46	−9.20
0.4001	1207.52	−0.508	1342.17	86.24	459.72	−67.75	0.9492	1382.87	−0.081	1452.23	9.79	342.88	−4.83
0.5015	1255.54	−0.455	1370.61	79.17	423.98	−55.36							
					T = 298.15 K								
0.0499	875.66	−0.316	1170.11	34.80	834.09	−56.23	0.5932	1282.26	−0.439	1369.18	74.44	416.01	−50.72
0.1000	948.32	−0.456	1194.17	56.05	739.46	−79.84	0.6928	1313.99	−0.355	1389.28	58.84	394.30	−36.68
0.1503	1008.47	−0.531	1218.21	71.24	668.18	−90.74	0.8020	1342.74	−0.236	1407.84	39.06	375.75	−22.33
0.1999	1058.46	−0.573	1241.66	82.33	612.80	−94.93	0.8517	1354.22	−0.184	1415.44	29.56	368.58	−16.31
0.3009	1139.14	−0.606	1283.72	93.20	532.70	−90.54	0.9017	1365.03	−0.146	1422.67	19.80	361.95	−10.60
0.4001	1198.91	−0.560	1317.99	93.04	480.16	−78.55	0.9492	1374.41	−0.087	1429.37	10.58	356.12	−5.50
0.5015	1246.96	−0.501	1346.92	85.41	442.04	−63.94							
					T = 308.15 K								
0.0499	867.01	−0.348	1139.42	37.19	888.40	−66.01	0.5932	1273.76	−0.486	1346.39	80.22	433.08	−58.36
0.1000	939.65	−0.503	1165.70	60.24	783.18	−93.79	0.6928	1305.52	−0.392	1366.72	63.58	410.07	−42.18
0.1503	999.81	−0.587	1191.36	76.71	704.69	−106.37	0.8020	1334.31	−0.261	1385.42	42.35	390.46	−25.67
0.1999	1049.81	−0.634	1215.68	88.37	644.54	−110.62	0.8517	1345.80	−0.203	1393.07	32.12	382.89	−18.77
0.3009	1130.53	−0.669	1259.25	100.08	557.82	−104.99	0.9017	1356.63	−0.159	1400.42	21.66	375.86	−12.25
0.4001	1190.34	−0.621	1294.16	99.78	501.59	−90.61	0.9492	1366.02	−0.094	1407.04	11.55	369.77	−6.34
0.5015	1238.43	−0.555	1323.63	91.72	460.89	−73.57							
					T = 318.15 K								
0.0499	858.25	−0.384	1109.14	39.73	947.14	−77.60	0.5932	1265.32	−0.540	1323.94	86.31	450.88	−67.12
0.1000	930.92	−0.558	1137.53	64.53	830.16	−110.03	0.6928	1297.12	−0.436	1344.61	68.67	426.41	−48.51
0.1503	991.10	−0.652	1164.71	82.24	743.78	−124.41	0.8020	1325.93	−0.290	1363.47	45.90	405.68	−29.52
0.1999	1041.14	−0.704	1189.87	94.47	678.41	−128.66	0.8517	1337.44	−0.225	1371.13	34.84	397.71	−21.56
0.3009	1121.93	−0.743	1235.07	107.22	584.32	−121.66	0.9017	1348.27	−0.173	1378.68	23.68	390.21	−14.15
0.4001	1181.81	−0.691	1270.70	106.89	524.04	−104.55	0.9492	1357.67	−0.101	1385.20	12.58	383.87	−7.28
0.5015	1229.94	−0.619	1300.74	98.43	480.54	−84.69							
					T = 328.15 K								
0.0499	849.37	−0.428	1079.19	42.34	1010.90	−91.26	0.5932	1256.93	−0.605	1301.77	92.86	469.48	−77.28
0.1000	922.10	−0.622	1109.70	68.99	880.67	−129.14	0.6928	1288.75	−0.484	1323.04	74.44	443.29	−56.03
0.1503	982.34	−0.728	1138.38	87.98	785.53	−145.54	0.8020	1317.62	−0.325	1342.09	50.08	421.35	−34.19
0.1999	1032.44	−0.787	1164.35	100.82	714.45	−149.71	0.8517	1329.14	−0.252	1349.85	38.22	412.91	−25.05
0.3009	1113.33	−0.830	1211.21	114.74	612.26	−141.09	0.9017	1339.98	−0.191	1357.58	26.27	404.92	−16.59
0.4001	1173.30	−0.774	1247.65	114.54	547.53	−120.87	0.9492	1349.40	−0.112	1363.89	13.99	398.38	−8.55
0.5015	1221.51	−0.693	1278.31	105.78	500.99	−97.76							

JE700501E

10.1021/je700501e
Published on Web 09/21/2007