

**Example Table:**  
**Vapor-Liquid Equilibrium ( $p, T, x$ ) Data**

TABLE 3  
 Experimental (vapor + liquid) equilibrium data for temperature  $T$ , pressure  $p$  with standard uncertainty  $u(p)$ , and mole fraction  $x$  for the system benzylamine(1) + water(2).<sup>a</sup>

$T/K$	$x_1$	$p/kPa$	$u(p)/kPa$	$T/K$	$x_1$	$p/kPa$	$u(p)/kPa$
283.15	0.0000	1.1995	0.0024	333.15	0.0000	19.616	0.039
283.15	0.0512	1.1815	0.0024	333.15	0.0512	19.865	0.040
283.15	0.1017	1.1835	0.0024	333.15	0.1017	19.547	0.039
283.15	0.2526	1.1214	0.0022	333.15	0.2526	18.604	0.037
283.15	0.3613	1.0264	0.0021	333.15	0.3613	16.526	0.033
283.15	0.5009	0.8109	0.0041	333.15	0.5009	13.179	0.026
283.15	0.6687	0.5809	0.0029	333.15	0.6687	7.896	0.016
283.15	0.8391	0.1238	0.0062	333.15	0.8391	3.8535	0.0077
283.15	1.0000	0.0285	0.0014	333.15	1.0000	0.9048	0.0045
293.15	0.0000	2.2838	0.0046	343.15	0.0000	30.815	0.062
293.15	0.0512	2.2724	0.0045	343.15	0.0512	31.224	0.062
293.15	0.1017	2.2553	0.0045	343.15	0.1017	30.803	0.062
293.15	0.2526	2.1358	0.0043	343.15	0.2526	29.389	0.059
293.15	0.3613	1.9306	0.0039	343.15	0.3613	26.137	0.052
293.15	0.5009	1.5298	0.0031	343.15	0.5009	20.857	0.042
293.15	0.6687	1.0517	0.0021	343.15	0.6687	12.140	0.024
293.15	0.8391	0.4366	0.0022	343.15	0.8391	5.031	0.010
293.15	1.0000	0.0642	0.0032	343.15	1.0000	1.5582	0.0031
303.15	0.0000	4.1478	0.0083	353.15	0.0000	47.074	0.094
303.15	0.0512	4.1576	0.0083	353.15	0.0512	47.678	0.095
303.15	0.1017	4.1026	0.0082	353.15	0.1017	47.209	0.094
303.15	0.2526	3.8862	0.0078	353.15	0.2526	45.167	0.090
303.15	0.3613	3.4829	0.0070	353.15	0.3613	40.275	0.081
303.15	0.5009	2.7661	0.0055	353.15	0.5009	32.152	0.064
303.15	0.6687	1.8306	0.0037	353.15	0.6687	18.214	0.036
303.15	0.8391	0.9973	0.0050	353.15	0.8391	6.252	0.013
303.15	1.0000	0.1351	0.0068	353.15	1.0000	2.5850	0.0052
313.15	0.0000	7.222	0.014	363.15	0.0000	70.10	0.14
313.15	0.0512	7.276	0.015	363.15	0.0512	70.91	0.14
313.15	0.1017	7.158	0.014	363.15	0.1017	70.54	0.14
313.15	0.2526	6.788	0.014	363.15	0.2526	67.69	0.14
313.15	0.3613	6.050	0.012	363.15	0.3613	60.60	0.12
313.15	0.5009	4.8136	0.0096	363.15	0.5009	48.385	0.097
313.15	0.6687	3.0747	0.0061	363.15	0.6687	26.718	0.053
313.15	0.8391	1.7867	0.0036	363.15	0.8391	7.488	0.015
313.15	1.0000	0.2678	0.0013	363.15	1.0000	4.1465	0.0083
323.15	0.0000	12.107	0.024				
323.15	0.0512	12.239	0.024				
323.15	0.1017	12.030	0.024				
323.15	0.2526	11.426	0.023				
323.15	0.3613	10.157	0.020				
323.15	0.5009	8.091	0.016				
323.15	0.6687	5.000	0.010				
323.15	0.8391	2.7565	0.0055				
323.15	1.0000	0.5039	0.0025				

<sup>a</sup> Standard uncertainties  $u$  are  $u(T) = 0.01$  K and  $u(x) = 0.0002$ .