

# Correction

**Isobaric Vapor–Liquid Equilibrium Measurements on 2-Chlorobutane + Isomeric Butanols at 60.0 and 101.3 kPa.** Pilar Cea, Carlos Lafuente, M. Luisa Sanz, Félix M. Royo, and José S. Urieta, *J. Chem. Eng. Data* 1995, 40, 692–695.

In Table 2 the data for 2-Chlorobutane + 1-Butanol at 60.0 kPa were changed over with those of 2-Chlorobutane + 2-Methyl-1-propanol at 60.0 kPa and the same occurred with the data of 2-Chlorobutane + 2-Butanol at 60.0 kPa and 2-Chlorobutane + 2-Methyl-2-propanol at 60.0 kPa. The correct table follows.

**Table 2. Vapor–Liquid Equilibrium Data, Temperature  $T$ , Liquid-Phase Mole Fraction  $x_1$ , Vapor-Phase Mole Fraction  $y_1$ , and Activity Coefficients  $\gamma_i$  for 2-Chlorobutane (1) + Isomeric Butanols (2) at the Indicated Pressure**

| $T/K$   | $x_1$  | $y_1$  | $\gamma_1$ | $\gamma_2$ | $T/K$  | $x_1$  | $y_1$  | $\gamma_1$ | $\gamma_2$ |
|---|--------|--------|------------|------------|--------|--------|--------|------------|------------|
| 2-Chlorobutane (1) + 1-Butanol (2) at 60.0 kPa            |        |        |            |            |        |        |        |            |            |
| 369.50  | 0.0249 | 0.2670 | 2.993      | 1.001      | 332.15 | 0.4145 | 0.8971 | 1.733      | 1.334      |
| 363.65  | 0.0489 | 0.4364 | 2.886      | 1.003      | 330.40 | 0.5100 | 0.9190 | 1.527      | 1.380      |
| 355.90  | 0.0950 | 0.6099 | 2.547      | 1.021      | 329.20 | 0.6011 | 0.9297 | 1.363      | 1.571      |
| 347.25  | 0.1562 | 0.7544 | 2.441      | 1.027      | 327.66 | 0.7369 | 0.9387 | 1.181      | 2.263      |
| 341.15  | 0.2247 | 0.8276 | 2.228      | 1.057      | 327.00 | 0.8448 | 0.9505 | 1.066      | 3.214      |
| 336.95  | 0.2884 | 0.8589 | 2.048      | 1.168      | 326.50 | 0.9212 | 0.9628 | 1.007      | 4.894      |
| 2-Chlorobutane (1) + 1-Butanol (2) at 101.3 kPa           |        |        |            |            |        |        |        |            |            |
| 385.24  | 0.0240 | 0.2011 | 2.700      | 0.996      | 351.23 | 0.3958 | 0.8658 | 1.639      | 1.068      |
| 381.25  | 0.0455 | 0.3202 | 2.479      | 1.001      | 347.47 | 0.5322 | 0.8939 | 1.400      | 1.298      |
| 375.12  | 0.0769 | 0.4859 | 2.564      | 0.985      | 346.15 | 0.6088 | 0.9079 | 1.291      | 1.435      |
| 368.60  | 0.1230 | 0.6246 | 2.412      | 0.977      | 344.20 | 0.7417 | 0.9270 | 1.145      | 1.891      |
| 363.69  | 0.1717 | 0.7150 | 2.238      | 0.960      | 343.19 | 0.8287 | 0.9392 | 1.070      | 2.494      |
| 358.94  | 0.2339 | 0.7790 | 2.024      | 0.984      | 342.82 | 0.8622 | 0.9461 | 1.047      | 2.799      |
| 355.35  | 0.2936 | 0.8216 | 1.872      | 1.008      | 342.43 | 0.8956 | 0.9531 | 1.027      | 3.276      |
| 353.70  | 0.3218 | 0.8428 | 1.833      | 0.996      |        |        |        |            |            |
| 2-Chlorobutane (1) + 2-Butanol (2) at 60.0 kPa            |        |        |            |            |        |        |        |            |            |
| 353.62  | 0.0457 | 0.2363 | 2.184      | 1.008      | 330.79 | 0.4947 | 0.8277 | 1.400      | 1.229      |
| 349.70  | 0.0788 | 0.3807 | 2.277      | 1.000      | 329.00 | 0.6019 | 0.8589 | 1.266      | 1.400      |
| 343.75  | 0.1433 | 0.5500 | 2.149      | 1.017      | 327.77 | 0.7111 | 0.8837 | 1.148      | 1.695      |
| 339.50  | 0.2089 | 0.6560 | 1.997      | 1.024      | 326.60 | 0.8217 | 0.9109 | 1.065      | 2.238      |
| 335.36  | 0.3120 | 0.7485 | 1.734      | 1.050      | 325.65 | 0.9100 | 0.9490 | 1.034      | 2.669      |
| 332.76  | 0.4096 | 0.7930 | 1.520      | 1.145      |        |        |        |            |            |
| 2-Chlorobutane (1) + 2-Butanol (2) at 101.3 kPa           |        |        |            |            |        |        |        |            |            |
| 370.36  | 0.0175 | 0.0864 | 2.247      | 1.010      | 346.78 | 0.4770 | 0.7762 | 1.383      | 1.190      |
| 368.32  | 0.0367 | 0.1776 | 2.315      | 0.999      | 343.29 | 0.7048 | 0.8545 | 1.141      | 1.601      |
| 363.35  | 0.0925 | 0.3567 | 2.091      | 1.000      | 343.00 | 0.7438 | 0.8648 | 1.103      | 1.737      |
| 356.95  | 0.1838 | 0.5556 | 1.938      | 0.987      | 342.05 | 0.8412 | 0.8981 | 1.042      | 2.205      |
| 351.50  | 0.3008 | 0.6750 | 1.669      | 1.055      | 341.63 | 0.8967 | 0.9208 | 1.015      | 2.686      |
| 349.75  | 0.3519 | 0.7220 | 1.603      | 1.049      | 341.48 | 0.9459 | 0.9487 | 0.996      | 3.345      |
| 347.85  | 0.4192 | 0.7593 | 1.493      | 1.100      |        |        |        |            |            |
| 2-Chlorobutane (1) + 2-Methyl-1-propanol (2) at 60.0 kPa  |        |        |            |            |        |        |        |            |            |
| 362.20  | 0.0250 | 0.1960 | 2.632      | 1.014      | 332.15 | 0.4411 | 0.8628 | 1.566      | 1.204      |
| 358.25  | 0.0486 | 0.3292 | 2.523      | 1.021      | 330.20 | 0.5471 | 0.8867 | 1.382      | 1.359      |
| 349.87  | 0.1103 | 0.5688 | 2.418      | 1.010      | 329.20 | 0.6350 | 0.9031 | 1.253      | 1.521      |
| 344.46  | 0.1618 | 0.6753 | 2.288      | 1.035      | 327.87 | 0.7402 | 0.9194 | 1.144      | 1.909      |
| 339.25  | 0.2434 | 0.7767 | 2.045      | 1.012      | 326.81 | 0.8598 | 0.9386 | 1.041      | 2.854      |
| 336.36  | 0.3107 | 0.8146 | 1.837      | 1.064      | 326.11 | 0.9282 | 0.9561 | 1.006      | 4.140      |
| 2-Chlorobutane (1) + 2-Methyl-1-propanol (2) at 101.3 kPa |        |        |            |            |        |        |        |            |            |
| 379.00  | 0.0143 | 0.0865 | 2.243      | 0.996      | 350.88 | 0.3648 | 0.7948 | 1.649      | 1.059      |
| 377.27  | 0.0243 | 0.1494 | 2.373      | 0.997      | 345.10 | 0.6302 | 0.8747 | 1.239      | 1.442      |
| 374.46  | 0.0406 | 0.2458 | 2.496      | 0.996      | 343.46 | 0.7370 | 0.8971 | 1.140      | 1.797      |
| 369.89  | 0.0762 | 0.3822 | 2.308      | 1.005      | 342.63 | 0.8296 | 0.9179 | 1.062      | 2.302      |
| 359.19  | 0.2046 | 0.6744 | 1.991      | 0.941      | 342.12 | 0.8956 | 0.9370 | 1.019      | 2.953      |
| 354.24  | 0.2765 | 0.7309 | 1.823      | 1.053      | 341.63 | 0.9415 | 0.9561 | 1.004      | 3.759      |
| 2-Chlorobutane (1) + 2-Methyl-2-propanol (2) at 60.0 kPa  |        |        |            |            |        |        |        |            |            |
| 338.10  | 0.0675 | 0.2461 | 2.421      | 0.991      | 325.71 | 0.5877 | 0.7466 | 1.257      | 1.337      |
| 335.10  | 0.1363 | 0.3891 | 2.081      | 0.991      | 324.93 | 0.6961 | 0.7886 | 1.151      | 1.572      |
| 331.85  | 0.2189 | 0.5058 | 1.868      | 1.028      | 324.15 | 0.7600 | 0.8000 | 1.098      | 1.957      |
| 329.72  | 0.3058 | 0.5912 | 1.675      | 1.057      | 324.44 | 0.8310 | 0.8363 | 1.040      | 2.242      |
| 328.43  | 0.3619 | 0.6370 | 1.591      | 1.085      | 324.15 | 0.8939 | 0.8795 | 1.027      | 2.668      |
| 327.21  | 0.4536 | 0.6655 | 1.381      | 1.238      |        |        |        |            |            |
| 2-Chlorobutane (1) + 2-Methyl-2-propanol (2) at 101.3 kPa |        |        |            |            |        |        |        |            |            |
| 354.12  | 0.0267 | 0.0821 | 2.128      | 0.993      | 340.11 | 0.6005 | 0.7225 | 1.245      | 1.285      |
| 352.72  | 0.0513 | 0.1460 | 2.047      | 1.000      | 339.85 | 0.6380 | 0.7392 | 1.208      | 1.347      |
| 349.42  | 0.1154 | 0.3113 | 2.127      | 0.983      | 339.45 | 0.7314 | 0.7789 | 1.124      | 1.566      |
| 347.14  | 0.1941 | 0.4162 | 1.804      | 1.002      | 339.32 | 0.8061 | 0.8158 | 1.072      | 1.817      |
| 345.25  | 0.2668 | 0.5019 | 1.672      | 1.014      | 339.49 | 0.8760 | 0.8562 | 1.030      | 2.203      |
| 341.85  | 0.4406 | 0.6357 | 1.417      | 1.119      | 340.03 | 0.9137 | 0.8863 | 1.006      | 2.446      |
| 340.95  | 0.5169 | 0.6799 | 1.327      | 1.182      | 339.99 | 0.9365 | 0.9087 | 1.008      | 2.674      |
| 340.45  | 0.5650 | 0.7035 | 1.275      | 1.242      | 340.49 | 0.9673 | 0.9462 | 1.000      | 2.995      |

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