Erratum: Activity Coefficients of Potassium Chloride in Water–Ethanol Mixtures

A. Lopes,* F. Farelo, and M. I. A. Ferra

In Volume 28, p. 127, 1999 an error was introduced by the computer program used to regress the parameters of the Pitzer–Simonson model, pertaining to KCl in water. Some of the parameters given in Tables IV and V are erroneous. The correct values are now given in the Tables that follow.

The error does not affect the distribution of residuals in Figs. 3 and 4 or the conclusions of the paper.

Table IV. The Pitzer–Simonson Parameters for Solutions of KCl in Water–Ethanol Solvents

	25°C	30°C	35°C	40°C	45°C
B_{KCl}	4.7265	5.1155	5.4805	5.8224	6.1418
w_{12}	1.2051	1.2110	1.2168	1.2227	1.2285
u_{12}	0.2583	0.2814	0.3044	0.3275	0.3506
$W_{1\text{KCl}}$	−3.0229	−2.9938	−2.9648	−2.9360	−2.9072
$U_{1\text{KCl}}$	−1.9981	−1.8949	−1.7994	−1.7116	−1.6310
$Z_{12\text{KCl}}$	3.2750	9.0659	14.8759	20.7050	26.5533
$W_{2\text{KCl}}$	16.8101	6.7434	−3.2571	−13.1915	−23.0596
$U_{2\text{KCl}}$	−55.3182	−55.8536	−56.3995	−56.9557	−57.5224
$E_{5\%}^{\circ}/\text{mV}$	164.8	164.6	164.2	163.9	163.7
$E_{10\%}^{\circ}/\text{mV}$	175.2	174.8	174.4	174.0	173.8
$E_{15\%}^{\circ}/\text{mV}$	187.6	187.0	186.4	185.8	185.7
$E_{20\%}^{\circ}/\text{mV}$	199.0	198.5	197.9	197.3	197.2
σ/mV^a	0.36	0.37	0.40	0.42	0.46

^aStandard deviation of fit.

Table V. Coefficients for Calculation of the Pitzer–Simonson Parameters (Eq. 35)

	q_1	q_2	q_3	q_4	q_5
B_{KCl}	4.7265	0	88.0505	−0.2151	0
$W_{1\text{KCl}}$	−3.0229	0	0.4847	0.0042	0
$U_{1\text{KCl}}$	−1.9981	0	28.6039	−0.0745	0
w_{12}	1.2051	112.718	0.72716	0	0
u_{12}	0.2583	438.672	2.84530	0	0
$W_{2\text{KCl}}$	16.8101	0	0	−2.8094	1.32E-03
$U_{2\text{KCl}}$	−55.3182	0	0	0.0180	−2.08E-04
$Z_{12\text{KCl}}$	3.2750	0	0	0.9283	3.82E-04