Correction

Thermodynamic Equilibrium of Diluted SO_2 Absorption into Na_2SO_4 or H_2SO_4 Electrolyte Solutions. T. Hunger, F. Lapicque, and A. Storck, *J. Chem. Eng. Data* 1990, *35*, 453–463.

In Table IV, the volumes V_b and V_c should be expressed in dm^3 mol^{-1} and not in dm^3 kg^{-1}. In relation A3, the expression Γ_{ref} and not Γ_{rel} should be inserted. In relation A5, an exponent was omitted in the expression for the Debye–Hückel coefficient, and the correct expression should be

$$A = \frac{1}{2.303}\left[\frac{e}{(DkT)^{1/2}}\right]^3\left(\frac{2\pi d_0 N_A}{1000}\right)^{1/2}$$

instead of

$$A = \frac{1}{2.303}\left[\frac{e}{(DkT)^{1/2}}\right]\left(\frac{2\pi\, d_0\, N_A}{1000}\right)^{1/2}$$

An error in the right-hand term of relation A10 was made, and this relation has to be replaced by

$$T_{ion,ion}(j+4) = -z^2(j+4)B_{sum}/4I^2 + 2\sum_{i=1}^{2}m(i+2)B(i,j)$$

The dimensionless dielectric constant should be defined as (A12)

$$DIV = \left[1 + \frac{\alpha(2)m(2)}{V_m}\right]^{-1}$$

A parenthesis is missing in the numerator of the last term of relation A15b, related to the ion–molecule interaction term for SO_2; the correct expression is

$$T_{ion-mol}(2) = \sum L\, DIV\left[\frac{-1.5 V_b(2)\, V_{cT}}{V_{fc}^2} + \frac{V_f + 0.5 V_{cT}}{V_{fc}}\left(\frac{V_b(2)}{V_m} - \frac{DIV(V_b(2) + \alpha(2))}{V_m}\right)\right]$$

Finally, the last term for the ion–molecule interaction contribution of H_2O should be proportional to $\sum LM_w$; therefore, the actual relation A15c is

$$T_{ion-ion}(1) = \frac{2AM_w}{3}\frac{I^{1.5}}{1 + 1.2I^{1/2}} -$$
$$2M_w\sum_{i=1}^{2}m(i+2)\sum_{j=1}^{4}m(j+4)B_w(i,j) -$$
$$\sum LM_w\left[\frac{-\alpha(2)m(2)DIV^2}{d_0 V_m^2} \times \frac{V_f + 0.5 V_{cT}}{V_{fc}} + \frac{1.5 V_{cT}DIV}{d_0 V_{fc}^2} - \frac{1.5 V_{cT}}{d_0 V_{fc}^2}\right]$$