

Erratum to: Osmotic and Activity Coefficients of $\{y\text{KCl} + (1 - y)\text{MgCl}_2\}(\text{aq})$ at $T = 298.15 \text{ K}$

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Dear Editors,

Our attention has recently been drawn to incorrect equations due to typographical errors in the above paper presenting Scatchard's model for the mean ionic activity coefficients of KCl and MgCl_2 of the system $\{y\text{KCl} + (1 - y)\text{MgCl}_2\}(\text{aq})$. Corrected Eqs. 11 and 12 are given below.

On page 1410, Eq. 11 should be:

$$\begin{aligned} 2 \ln \gamma_{\pm, \text{KCl}} &= 2 \ln \gamma_{\pm, \text{KCl}}^* \\ &+ \{(\phi_{\text{MgCl}_2}^* - 1) - 2(\phi_{\text{KCl}}^* - 1)\}(1 - y) + \{b_{01}(I/m^{\circ}) + (b_{02} + b_{12})(I/m^{\circ})^2 \\ &+ (b_{03} + b_{13} + b_{23})(I/m^{\circ})^3\}(1 - y) \\ &- \left[\left\{ (1/2)b_{02} + (3/2)b_{12} \right\} (I/m^{\circ})^2 + \left\{ (2/3)b_{03} + 2b_{13} + (10/3)b_{23} \right\} (I/m^{\circ})^3 \right] (1 - y)^2 \\ &+ \left[\left\{ (2/3)b_{13} + (8/3)b_{23} \right\} (I/m^{\circ})^3 \right] (1 - y)^3. \end{aligned} \quad (11)$$

Equation 12 should be:

$$\begin{aligned} \ln \gamma_{\pm, \text{MgCl}_2} &= \ln \gamma_{\pm, \text{MgCl}_2}^* \\ &+ \left\{ 2(\phi_{\text{KCl}}^* - 1) - (\phi_{\text{MgCl}_2}^* - 1) \right\} y + \{b_{01}(I/m^{\circ}) + (b_{02} - b_{12})(I/m^{\circ})^2 \end{aligned}$$

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$$\begin{aligned} & + (b_{03} - b_{13} + b_{23})(I/m^{\circ})^3 \} y \\ & - \left[\left\{ (1/2)b_{02} - (3/2)b_{12} \right\} (I/m^{\circ})^2 + \left\{ (2/3)b_{03} - 2b_{13} + (10/3)b_{23} \right\} (I/m^{\circ})^3 \right] y^2 \\ & - \left[\left\{ (2/3)b_{13} - (8/3)b_{23} \right\} (I/m^{\circ})^3 \right] y^3. \end{aligned} \quad (12)$$

The Scatchard model that had been used for the activity coefficient calculations only had the b_{01} and b_{02} parameters and the terms with these parameters are correct in the previous equations. Thus the activity coefficients reported in Table 5 (pages 1415 and 1416) are correct.