

10.7: Chapter 10 Problems

An underlined problem number or problem-part letter indicates that the numerical answer appears in Appendix I.

10.1

The mean ionic activity coefficient of NaCl in a 0.100 molal aqueous solution at 298.15 K has been evaluated with measurements of equilibrium cell potentials, with the result $\ln \gamma_{\pm} = -0.2505$ (R. A. Robinson and R. H. Stokes, *Electrolyte Solutions*, 2nd edition, Butterworths, London, 1959, Table 9.3). Use this value in Eq. 10.6.9, together with the values of osmotic coefficients in Table 10.1, to evaluate γ_{\pm} at each of the molalities shown in the table; then plot γ_{\pm} as a function of m_B .

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