

Fixes to typos or errors of significance for Chem 202 Text

If you find others, please report them to Dr. Noble.

Chapter 37

The values for $\Delta H_{\text{vap}}^{\circ}$ on p 388 for diethyl ether, methanol and water are a little different from the values for these compounds on p 368 in Chapter 35. The values on p 368 are "more correct".

Chapter 42

#3, p 441: The mole percent for C_5H_{12} is 33.6% or 33.7%, depending on the method of calculation.

#6c, p 441: The mole percent for NH_3 is 7.9% or 8.0%, depending on the method of calculation.

Chapter 43 (Different students reported)

p 446: I don't normally post the misspellings, but this one was more interesting than most. Seventh line from bottom of page: "party permeable" sounds like an interesting concept, but it should be "partly permeable" here.

p 448: The value $3.3688... \times 10^{-5}$ appears twice, low on the page. The exponent is incorrect; the value should be $3.3688... \times 10^{-6}$. The final answer is still correct, 12,300.

Chapter 45 (Student reported)

p 470: Example 1, the blank for the final answer for $\Delta G_{\text{comb}}^{\circ}$ shows the unit of J/K; this should be kJ.

Chapter 52

#5c, p 550: The pressure of $\text{NH}_3(g)$ is 7.70×10^{-4} atm or 7.76×10^{-4} atm, depending on the method of calculation. The molarity of $\text{NH}_3(aq)$ is the same regardless.

Chapter 58

p 626: In the middle of the seventh line, where it starts mol HClO:, the formula for perchloric acid was incorrectly inserted. The HClO_4 should be HClO.

Chapter 59

p 634: The $K_a(M^{2+})$ equation near the bottom of the page should have $H^+(aq)$ on the right, not $H_3O^+(aq)$.

#5, p 639: The value for K_{sp} should be 5.14×10^{-12} instead of 5.1×10^{-12} .

Chapter 60

p 640: The equation near the bottom of the page for K_{sp} is missing the exponent of two on the second parenthetical term: $(7.2 \times 10^{-3})^2$. The answer is still correct, 1.9×10^{-7} .

p 647: In the uppermost equation on the page, the silver complex is written as $Ag(NH_3)_2^{2+}(aq)$ with an incorrect 2+ charge. The charge is 1+, as shown elsewhere in the Chapter. (Student reported.)