ADDITIONS AND CORRECTIONS

2000, Volume 104A

Steven S. Brown, A. R. Ravishankara,* and Harald Stark: Simultaneous Kinetics and Ring-down: Rate Coefficients from Single Cavity Loss Temporal Profiles

In eq 6, the symbol σ_0 should be replaced by the symbol α_0, to make the correct equation:

$$I(t) = I_0 \exp\left[-\left(c\alpha_\infty + \frac{1}{\tau_0}\right)t + \frac{c\alpha_\infty}{k'}(1 - e^{-k't})\right]$$

Equation 8 has the same error. The correct version should read

$$I(t) = I_0 \exp\left\{-c\alpha_0\left(\frac{1}{k_L'(k_P' - k_L')}\right)[k_P'(1 - e^{-k_L't}) - k_L'(1 - e^{-k_P't})] - \frac{t}{\tau_0}\right\}$$

Equation 10c has the wrong subscripts on the rate constants. "k_1" should read "k_P", and "k_2" should read "k_L." The correct equation should read

$$\text{Ratio}(t) = \exp\left\{-c\alpha_0\left(\frac{1}{k_L'(k_P' - k_L')}\right)[k_P'(1 - e^{-k_L't}) - k_L'(1 - e^{-k_P't})]\right\}$$

Finally, eq 13 is missing a minus sign. The correct equation should read

$$[\text{A}](t) = -\frac{1}{c\sigma}\frac{L}{L_A}\frac{d\ \ln[\text{Ratio}(t)]}{dt}$$

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Branko Ruscic*, Maritoni Litorja, and Robert L. Asher: Ionization Energy of Methylene Revisited: Improved Values for the Enthalpy of Formation of CH_2 and the Bond Dissociation Energy of CH_3 via Simultaneous Solution of the Local Thermochemical Network

Page 8631. While composing Table 3 (Recommended Thermochemical Values, Based on the Simultaneous Least-Squares Solution of the Local Thermochemical Network), an accidental transposition of digits produced the erroneous value for the ionization energy of methyl, EI(CH_3). The error subsequently propagated into the abstract. Both in Table 3 and in the abstract, the value should read EI(CH_3) = 9.8380 ± 0.0005 eV, rather than the erroneous 9.3830 eV. Note that the value for this quantity, as cited and used elsewhere in the text and tables, in the thermochemical network, and implied by the resulting thermochemical values [e.g., the difference $\Delta H°_f(CH_3^+) - \Delta H°_f(CH_3)$] is correct.

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