Correction to Reviews in Mineralogy & Geochemistry Vol. 55

--- Geochemistry of Non-Traditional Stable Isotopes ---

Chapter 3

"Analytical Methods for Non-Traditional Isotopes"

Pages 65-111

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Errors found in the last three equations on page 74. Corrected equations should read as follows:

$$\left(\frac{m_{35Cl}}{m_{37Cl}}\right)^{3/2} = \left(\frac{m_{35Cl^{16}O}}{m_{37Cl^{16}O}}\right)^{3/2} \times \frac{I_{35Cl^{16}O}}{I_{37Cl^{16}O}} \times \frac{\nu_{37Cl^{16}O}}{\nu_{35Cl^{16}O}} \qquad \text{(Redlich-Teller)}$$

$$\alpha_{ClO\text{-}Cl} = \frac{\nu_{37Cl^{16}O}}{\nu_{35Cl^{16}O}} \times \left(\frac{\exp\left[-\dfrac{h\nu_{37Cl^{16}O}}{2kT}\right]}{1-\exp\left[-\dfrac{h\nu_{37Cl^{16}O}}{kT}\right]}\right) \times \left(\frac{1-\exp\left[-\dfrac{h\nu_{35Cl^{16}O}}{kT}\right]}{\exp\left[-\dfrac{h\nu_{35Cl^{16}O}}{2kT}\right]}\right)$$

$$= 1.0096 \ @ \ 298K$$

$$\alpha_{XR\text{-}X} = \left[\prod_i \frac{\nu_{heavy\ XR}}{\nu_{light\ XR}} \times \left(\frac{\exp\left[-\dfrac{h\nu_{heavy\ XR}}{2kT}\right]}{1-\exp\left[-\dfrac{h\nu_{heavy\ XR}}{kT}\right]}\right) \times \left(\frac{1-\exp\left[-\dfrac{h\nu_{light\ XR}}{kT}\right]}{\exp\left[-\dfrac{h\nu_{light\ XR}}{2kT}\right]}\right)\right]^{1/n} \qquad (3)$$