

**ERRATA**

Correction to Reviews in Mineralogy &amp; Geochemistry Vol. 55

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

## Chapter 3

"Analytical Methods for Non-Traditional Isotopes"

Pages 65-111

**Edwin A. Schauble**

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

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

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

$$= 1.0096 \text{ @ } 298\text{K}$$

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