$$K_2 = 32.03 \frac{\text{mg}}{\text{meq}} \frac{24.05\ \text{l}}{\text{mole}} \frac{1\,\text{mole}}{64.06\ \text{g}} \frac{1\,\text{g}}{10^3\ \text{mg}} \frac{10^3\,\text{ml}}{1} \frac{10^3\,\mu\text{l}}{1\,\text{ml}}$$

$$= \frac{12025\ \text{ml}}{\text{meq}}$$