$$C_R = \frac{\sum_{x=1}^{m}\left(Q_x \times \overline{C}_x\right) + \sum_{y=1}^{n}\left(Q_y \times 500\,\text{ppmw}\right)}{\sum_{x=1}^{m} Q_x + \sum_{y=1}^{n} Q_y}$$