

# The isotope fractionation factor

The isotope fractionation factor is defined as:  $\alpha_b^a = \frac{R_a}{R_b}$

where  $R_A$ ,  $R_B$  are the isotope ratios in two phases (e.g., carbonate and water, or water vapor and water)

For example, consider:  $\text{H}_2\text{O}(l) \leftrightarrow \text{H}_2\text{O}(v)$  at  $25^\circ\text{C}$

$$\alpha_v^l(O) = \frac{R_l}{R_v} = \frac{\left(^{18}\text{O}/^{16}\text{O}\right)_l}{\left(^{18}\text{O}/^{16}\text{O}\right)_v} = 1.0092$$

The differences in isotope ratios are relatively small and are expressed as parts per thousand (per mil) deviations from a standard.

# Fractionation Formula Examples

**Terry C. Jones**



## **Fractionation Formula Examples:**

## **Fractionation Formula Examples** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Fractionation Formula Examples**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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