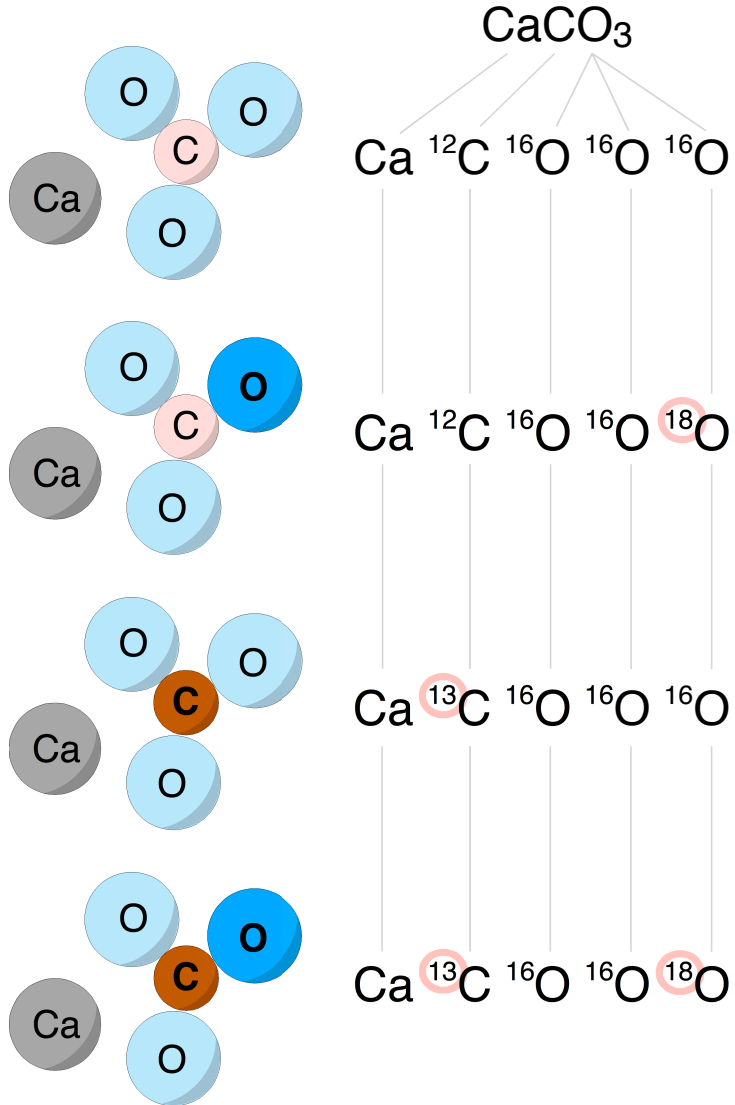


Isotopologues of CaCO_3 applied to past temperature



The most common isotopologue of CaCO_3

A useful clue to past temperature at which calcite formed, if the $^{18}\text{O}/^{16}\text{O}$ ratio of the precipitating water is known.

A useful tracer of many geochemical processes, especially biological processes like photosynthesis, but of little relevance to past temperatures.

A rare combination of isotopes that allows calculation of temperature at which calcite formed, regardless of the $^{18}\text{O}/^{16}\text{O}$ ratio of the precipitating water.