

15.3 Measures of Concentration (Video)

This project was preformed to supply **Libretext Authors** with videos on General Chemistry topics which can be used to enhance their projects. Also, these videos are meant to act as a learning resource for **all General Chemistry students**.

Video Topics

This video discussed the wide variety of measures of concentration used in chemistry. Remember a solute is dissolved in a solvent to create a solution.

Molarity = Mol solute / Volume of solution (mol/L) or (M)

Mol fraction = X_{solute} = Mol solute / Mol total (unitless)

Molality = Mol solute / Mass solvent (kg) (mol/kg) or (m)

Parts by mass = (Mass solute / Mass solution) x Multiplication factor (unitless)

Mass percent MF = 100

Parts per million (ppm) MF = 10⁶

Parts per billion (ppb) MF = 10⁹

Percent by volume = (Volume of solute / Volume of Solution) X 100 (unitless)

Link to Video

Measures of Concentration: <https://youtu.be/RjMGaUpkg8g>



Attribution

- Prof. Steven Farmer ([Sonoma State University](#))

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