

Solubility and concentration

ST

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Complete this Concept Review so you can keep a record of what you have learned.

Definitions

- A solution is _____

- An aqueous solution is _____

- Solubility is _____

- The concentration of a solution is _____

- The concentration in PPM ("parts per million") is _____

Effects of various changes on the concentration of a solution

Change	Effect on the concentration
Dilution (addition of solvent)	
Dissolution (addition of solute)	
Evaporation (reduction of solvent))	

Mathematical formulas and units of measurement

Formula for calculating concentration in g/L:



where _____

Equivalences for 1 ppm:

$$1 \text{ ppm} = \frac{\text{g}}{\text{g}} = \frac{\text{mg}}{\text{g}} = \frac{\text{mg}}{\text{kg}}$$

In aqueous solutions:

$$1 \text{ ppm} \approx \text{_____} \approx \text{_____}$$