# Study Card: Solvation

#### What Does Dissolving Involve?

When a solid dissolves in water, it's not gone. It has changed its state. As a solid, a solute particle (ion, molecule, etc.) is attracted to other solute particles. But when it dissolves in H<sub>2</sub>O, it changes to the aqueous state and becomes attracted to the H<sub>2</sub>O molecules.

# The Dissolving Process



Solute particles attract each other. Solute particles attract water.

#### The Dissolving of Ionic Solids

Dissolving involves more than just mixing. When table salt (NaCl) is added to water, the ions break off the crystal one-by-one and are surrounded by H<sub>2</sub>O molecules. The O atom of H<sub>2</sub>O surrounds the + ions. The H atoms of H<sub>2</sub>O surrounds the - ions. This is known as solvation: it prevents the ions from returning to the crystal lattice. All ionic solids are dissolved in this manner.

#### Solvation

Polar H<sub>2</sub>O molecules surrounding + and - ions.



#### The Dissolving of Molecular Solids

Molecular solids consist of molecules instead of ions. When table sugar (sucrose, C<sub>19</sub>H<sub>29</sub>O<sub>11</sub>) dissolves, the molecules break off the crystal one-by-one and are surrounded by H<sub>2</sub>O molecules. Hydrogen bonding forces hold the sucrose molecules together. So H<sub>2</sub>O surrounds the -OH groups of a sucrose molecule. forming its own hydrogen bonds with sucrose and preventing the molecule from returning to the crystal. This is how solvation helps molecular solids dissolve.

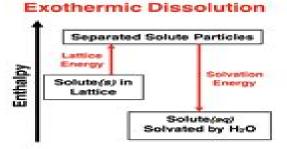
#### Solvation

H<sub>2</sub>O molecules attract and surround sucrose.

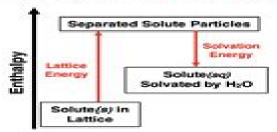


# An Energy Perspective on Dissolving

Dissolving can be thought of as involving two steps. First, solute particles are separated from the crystal. This requires energy; the amount is roughly equal to the lattice energy. Second, the H<sub>2</sub>O molecules surround the solute particles. This releases energy: the amount is roughly equal to the solvation energy. Dissolution is more likely to occur if the solvation energy is greater than the lattice energy.



**Endothermic Dissolution** 



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