## Thermal properties

- > Water has high *specific heat capacity* 
  - The amount of heat per unit mass required to raise the temperature one 0 degree Celsius
- > In other words water can absorb a lot of energy without a big change in temperature
  - A body filled with water can maintain its temperature easier
- ➤ Water has high *heat of vaporization* 
  - The amount of heat required to convert a unit mass of liquid into vapour with no increase in temperature
  - It needs a lot of energy to evaporate 0
- > Our body heat results in perspiration, which evaporates from our skin
  - The energy that turned the water molecules from liquid to vapour came from our body
  - Therefore, this change in the state of water lowers our body temperature 0 and makes us feel cooler

## Solvent properties

- The majority of molecules found in and outside mot all are also polar
  Carbohydrates
  Proteins
  Nucleicath
  Poperiasma is the line to the second second

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Some of the more common solutes is blood plasma are: 0

- Glucose .
- Amino acids
- Fibrogen
  - A protein involved in blood clotting
- Hydrogen carbonate ions
  - As means of transporting carbon dioxide
- > Aqueous solutions in which reactions take place:

Aqueous solution	Location	Common reactions
Cytoplasm	Fluid inside the cell, but outside the organelles	Glycolysis, protein synthesis reactions