

1/7/15

L

solution - homogeneous mixture

solvent - the major component of the solution

solute - the minor component of a solution

soluble - able to form a homogeneous mixture with a particular solvent at a particular temperature

dissolve - to cause a homogeneous mixture to form

miscible - able to form a solution regardless of the

quantities used

immiscible - unable to form a solution regardless of the quantities used.

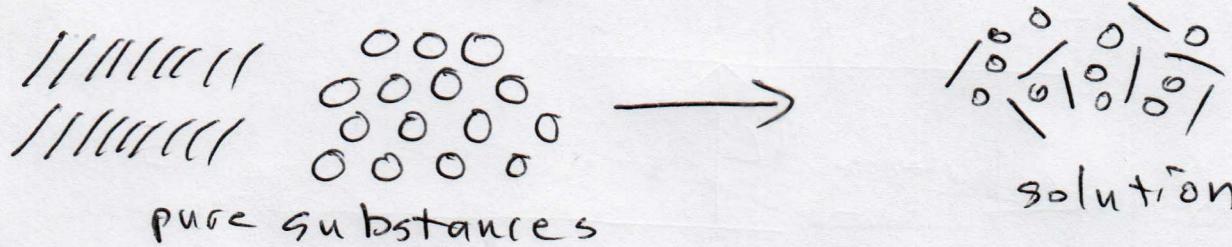
saturated - contains the maximum quantity of a particular solute in a particular solvent at a particular temperature.

---

Freezing point depression

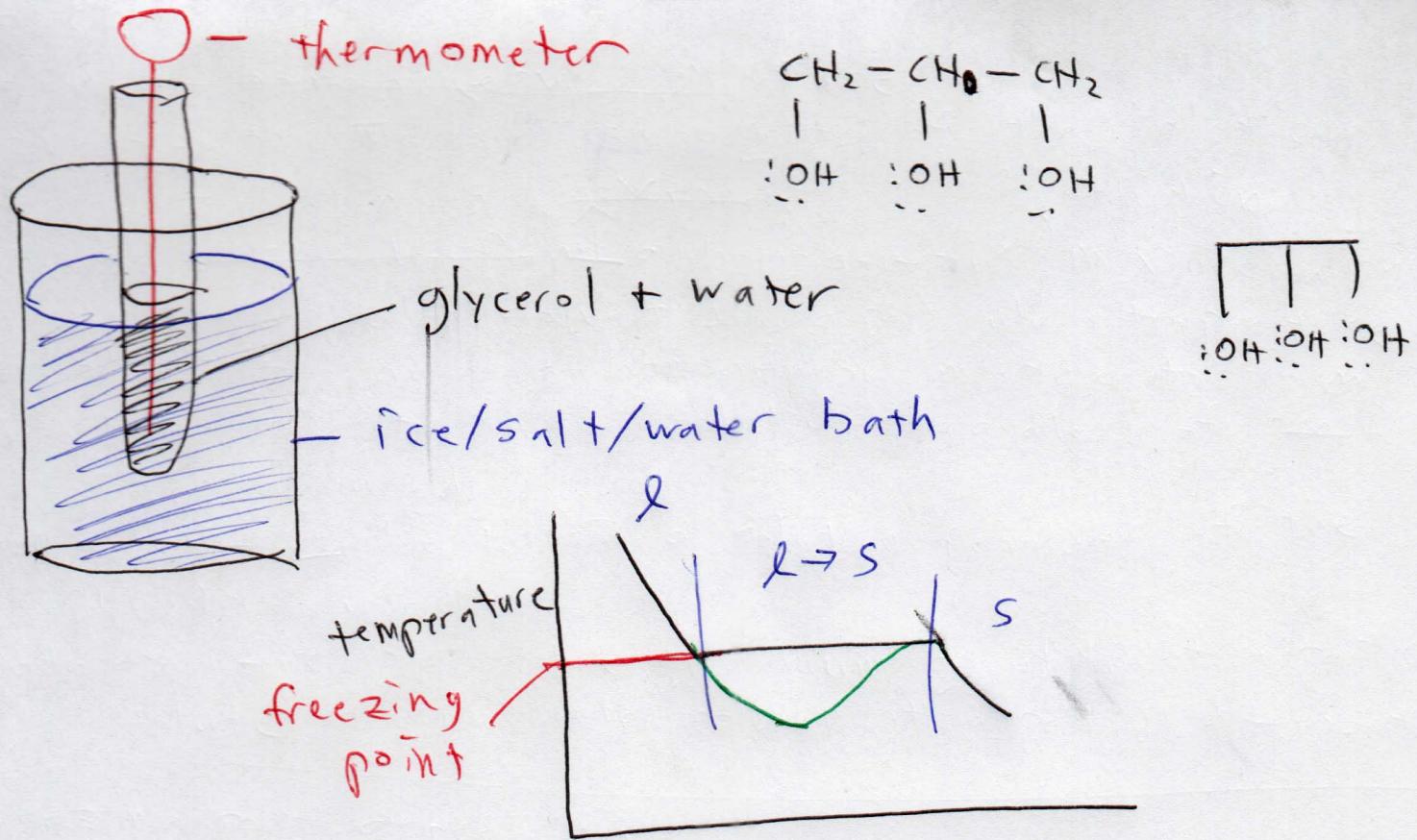
Freezing occurs when thermal energy drops to the point that the molecules have insufficient energy to overcome the attractive forces between them.

→ IMF > KE



Normally, pure substances are able to achieve a more efficient packing when forming a solid than a solution.

This means that normally the IMF present between components of a solution is lower than in either pure substance. Therefore, more energy must be removed to form a solid due to the lowered IMF, resulting in freezing point depression.



Supersaturation - a condition in which a solution contains more solute than normally is possible at that temperature