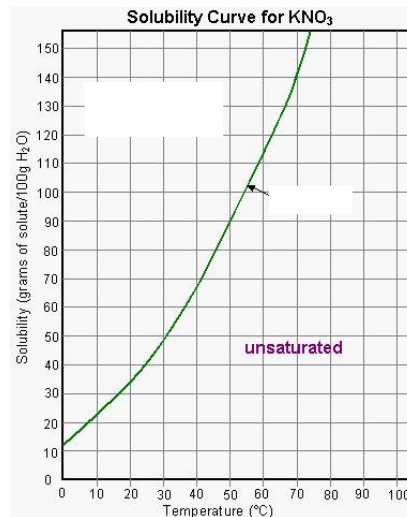


Unsaturated Solutions

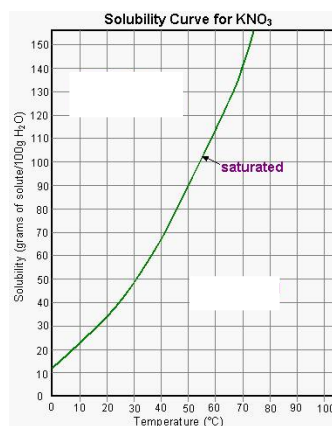
-- if the amount of solute dissolved is less than the maximum amount that could be dissolved, the solution is called **unsaturated**



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Saturated Solutions

-- a solution holding the maximum amount of solute per amount of solvent under the given conditions, is called a **saturated solution**



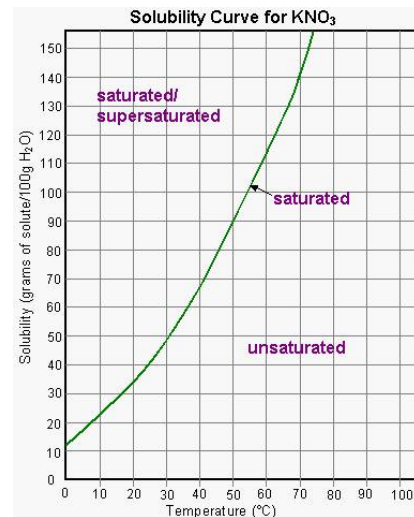
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Supersaturated Solutions

-- contain more solute than the usual maximum amount and is unstable is supersaturated

-- they cannot permanently hold the excess solute in solution and may release it suddenly

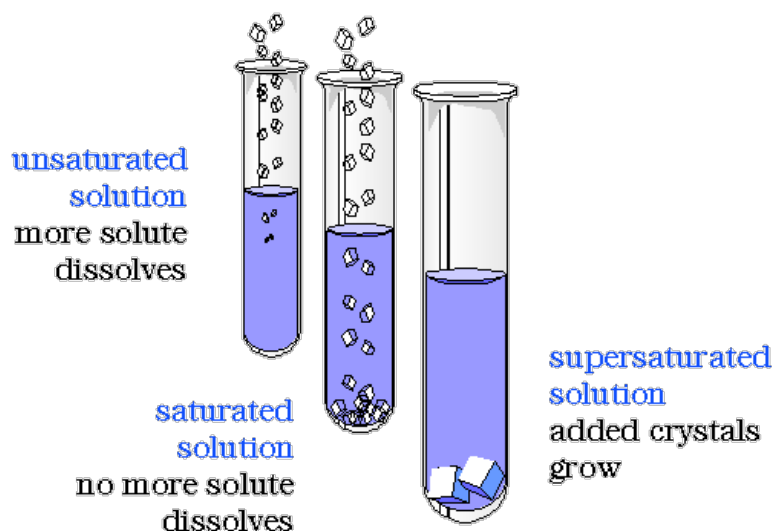
-- example: rain clouds



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Sketch:

Saturated Solutions



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Solutions Vocab

How can we test what type of solution we have?

unsat. - crystal dissolves
Sat. - crystal remains unchanged
supersat. - crystals grow

How would we form a supersaturated solution?

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Solutions Vocab

Heat of Solution -- the overall energy change that occurs during the solution formation process

Exothermic -- releases heat (gets warmer to touch)

Endothermic -- absorbs heat (gets colder to touch)

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