

**Tutorial Name: Concentration and Molarity**

**Assignment 1**

1. Find the molarity at the saturation point for all the remaining solutes and fill this table.

**Table 1: Saturation Point**

<b>Solute</b>	<b>Molarity at saturation point (mol/L)</b>
Drink mix	
Cobalt nitrate	
Cobalt chloride	4.330
Potassium dichromate	
Potassium chromate	
Nickel chloride	
Copper sulfate	1.380
Potassium permanganate	
Sodium chloride	

## Assignment 2

1. See the following table.
2. It contains all the solutes given in the simulation.
3. As an assignment,
4. Use the given values to calculate concentration.
5. Then verify the result using the Molarity simulation.

**Table 2: Concentration in mol/L**

<b>Solute</b>	<b>Solute amount (moles)</b>	<b>Solution volume (litres)</b>	<b>Concentration (moles/litres)</b>
Drink mix	0.447	0.662	
Cobalt nitrate	0.854	0.426	
Cobalt chloride	0.926	0.748	
Potassium dichromate	0.251	0.919	
Gold chloride	0.892	0.396	
Potassium chromate	0.112	0.255	
Nickel chloride	0.671	0.570	
Copper sulfate	0.385	0.841	
Potassium permanganate	0.502	0.991	