## Quiz 9.1 – Solutions and Solubility

Name:
Question 1
How many moles are in $5.12~g$ of $\mathrm{CuSO_4} \cdot  \mathrm{5H_2O}$
Question 2
Water $(H_2O)$ and diethyl ether $(CH_3-CH_2-O-CH_2-CH_3)$ are both solvents used in a chemistry laboratory.
Which of these solvents would you expect to dissolve wax $(C_{45}H_{92})$ ?
Question 3
Find the molar concentration if $2.5\ g$ of NaCl are dissolved to make $15.00\ ml$ of solution
Question 4
Find the mass/mass % if $0.750~g$ of napthalene are dissolved in $5.00~g$ of dichloromethane solvent
Question
Question 5  Solvation of radium hydrovida is an evathermic process. If you want to increase the solubility of radium hydrov
Solvation of sodium hydroxide is an exothermic process. If you want to increase the solubility of sodium hydroxide, should you raise or lower the temperature?

## OMe! OLife!

## Answer.

That you are here—that life exists and identity,
That the powerful play goes on, and you may contribute a verse.