

Laboratory Report (109 chem)

Experiment 1: Solubility

Student Names: Section No:

Tube no.	Test	Observation	Result
1	<p style="text-align: center;">H₂O + Hexane</p> Place 1 mL of distilled water in the test tube, add 1 mL of hexane and shake.		
2	<p style="text-align: center;">H₂O + Ethanol</p> Place 1 mL of distilled water in the test tube, add 1 mL of ethanol and shake.		
3	<p style="text-align: center;">H₂O + 1-butanol</p> Place 1 mL of distilled water in the test tube, add 1 mL of 1-butanol and shake.		
4	<p>a. H₂O + Ether</p> Place 1 mL of distilled water in the test tube, add 1 mL of ether and shake.		
	<p>b. H₂O + Ether + Ethanol</p> Add ethanol to the ether-water mixture and shake.		
5	<p>a. H₂O + Chloroform</p> Place 1 mL of distilled water in the test tube, add 1 mL of chloroform and shake.		
	<p>b. H₂O + Chloroform + azo-dye</p> Add 1 or 2 drops of azo-dye (methyl red) solution and shake vigorously.		
	<p>c. Add 0.5 mL of 5% NaOH solution to the mixture and shake vigorously.</p>		

Questions:

1) Which of these organic solvents will form one layer with water:

- a) Benzene.
- b) Propanol.
- c) Methanol.
- d) Dipropylether.
- e) Octanol.