

Laboratory Report (109 chem)

Experiment 1: Solubility

Student Names: Section No:

Tube no.	Test	Observation	Conclusion
1	Place 1 mL of distilled water in the test tube, add 1 mL of hexane and shake.		
2	Place 1 mL of distilled water in the test tube, add 1 mL of ethanol and shake.		
3	Place 1 mL of distilled water in the test tube, add 1 mL of 1-butanol and shake.		
4	a. Place 1 mL of distilled water in the test tube, add 1 mL of ether and shake.		
	b. Add ethanol to the ether-water mixture and shake.		
5	a. Place 1 mL of distilled water in the test tube, add 1 mL of chloroform and shake.		
	b. Add 1 or 2 drops of azo-dye (methyl red) solution and shake vigorously.		
	c. Add 0.5 mL of 5% NaOH solution to the mixture and shake vigorously.		

Questions:

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

- Benzene.
- Propanol.
- Methanol.
- Dipropylether.
- Octanol.