

Worksheet 7

1. Complete the following table

Soluble or Insoluble?	Soluble	Insoluble
CuS		
K ₂ S		
FeCl ₃		
C ₆ H ₁₂ O ₆ (Polar)		
Fe(OH) ₃		
HC ₂ H ₃ O ₂		
PbI ₂		
CuSO ₄		
C ₈ H ₁₈ (nonpolar)		
Pb(NO ₃) ₂		
H ₂ SO ₄		
BaSO ₄		

Show all work and units

2. What is the % (v/v) concentration of 14.6 ml of alcohol dissolved in 104.5 grams of solution?

Answer _____

3. What is the % (m/m) concentration of 124.6 grams of glucose dissolved in 678.5 grams of water?

Answer _____

4. How many ml of a 2.4% (m/v) solution of KCl can be made using 350 g of solute in water?

5. Answer _____

6. What volume of 35% (v/v) aqueous solution can be made using 14.5 ml of alcohol.

7. Answer _____

8. What mass of glucose is needed to make 2.2 L of a 25 % (m/v) aqueous solution ?

9. Answer _____

10. How many ml of solute are needed to prepare 1,450 ml of a 72% (v/v) solution of alcohol in water?

11. Answer _____