Practice

What is the molarity of solution that has 50 grams of HCl and 2000 mL of water?

May 17-9:51 AM

Practice

What is the molarity of solution that has 50 grams of HCl and 2000 mL of water?

$$M = \frac{mol}{L}$$

$$2000 mL x \frac{1L}{1000 mL} = 2 L$$

$$50g HCl x \frac{1mol HCl}{36g HCl} = 1.4 mol$$

$$H = |x| = ||x|| = ||x||$$

Practice

What is the new concentration of a solution if I add 200 mL to a 500 mL solution with a molarity of 0.75M.

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Practice

What is the new concentration of a solution if I add 200 mL to a 500 mL solution with a molarity of 0.75M.

$$M_1V_1 = M_2V_2$$

Practice

How many grams of HCI are required to make 500 mL of a 2.0 M solution?

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Practice

How many grams of HCl are required to make 500 mL of a 2.0 M solution?

$$\frac{2.0M}{1} = \frac{X \text{ mol}}{.5L}$$

Which of the following would be soluble in H₂O?

- 1. How do you determine if a substance is soluble in another?
- 2. HCI
- 3. O₂
- 4. PH

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Which of the following would be soluble in H2O? polar ionic - metal & nonmetal

1. How do you determine if a substance is soluble in another? likes dissolve likes

- 2. HCI H-CL: polar dissolves in HaO
- 3. O₂ : O=O. nonpolar_doesn't dissolve in Hao

 4. PH₃ 4 P-H polar_dissolves in Hao

Review

Describe what happens when you add 1 crystal to the following solutions:

saturated solution:

supersaturated solution:

unsaturated solution:

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Review

Describe what happens when you add 1 crystal to the following solutions:

saturated solution: Crystal is unchanged

supersaturated solution: Crystals grow (move crystals)

unsaturated solution: Crystal dissolves