NOVA SCOTIA ADVANCED CHEMISTRY 12 · UNIT C

Solutions, Kinetics and Equilibrium — Practice Test

Nova Scotia Advanced Chemistry 12 • 10 questions

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A reactant concentration falls from 2.0 to 1.0 moles per litre in 25 seconds. The average rate, in moles per litre per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **45 grams dissolve in 150 millilitres at saturation. The solubility, in grams per 100 millilitres, is**

ANSWER _____

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3 **100 grams dissolve in 250 millilitres at saturation. The solubility, in grams per 100 millilitres, is**

ANSWER _____

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4 **A salt A_2B has solubility 0.6 moles per litre. Its solubility product is**

ANSWER

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5 **A salt A_2B has solubility 0.2 moles per litre. Its solubility product is**

ANSWER

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6 **A sample has 30 milligrams of solute in 2 kilograms of water. The concentration, in parts per million, is**

ANSWER

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7 **A sample has 8 milligrams of solute in 4 kilograms of water. The concentration, in parts per million, is**

ANSWER

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8 **Increasing surface area increases reaction rate by**

A exposing more particles to collisions

B raising temperature

C lowering activation energy

D changing concentration

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9 **A supersaturated solution contains more solute than the**

A solvent can hold ever

B saturated amount at that temperature

C mass of water

D volume allows

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10 **The common ion effect on solubility is an example of**

A collision theory

B Hess law

C Le Chatelier principle

D dilution law

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ANSWER KEY

1.	0.04	**5.**	0.032	**9.**	B
2.	30	**6.**	15	**10.**	C
3.	40	**7.**	2		
4.	0.864	**8.**	A		

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