

General Chemistry Unit 05: States of Matter

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Table of Contents

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1. Unit 05: States of Matter

4. Chapter: Unit 05: States of Matter

1. Unit 05: States of Matter Questions

4.1.1. A sample of a certain gas has a volume of 222 mL at 695 mm Hg and 0...

Author: Joanna Smithback

A sample of a certain gas has a volume of 222 mL at 695 mm Hg and 0°C. What would be the volume of this same sample of gas if it were measured at 333 mm Hg and 0°C?

Please choose only one answer:

- 894 mL
- 657 mL
- 463 mL
- 359 mL

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [A sample of a certain gas has a volume of Joanna Smithback @Saylor](#)

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4.1.2. For a given sample of gas molecules, the average kinetic energy dep...

Author: Joanna Smithback

For a given sample of gas molecules, the average kinetic energy depends only on the value of the _____.

Please choose only one answer:

- pressure
- temperature
- volume
- moles

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4.1.3. The phase change from solid to gas is called _____.

Author: Joanna Smithback

The phase change from solid to gas is called _____.

Please choose only one answer:

- boiling
- efflorescence
- evaporation
- sublimation

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4.1.4. If the temperature and pressure are kept constant during the proces...

Author: Joanna Smithback

If the temperature and pressure are kept constant during the process, how many liters of TiCl_4 gas will be produced when 20.0 L of chlorine react with titanium, according to the reaction: $\text{Ti(s)} + 2 \text{Cl}_2\text{(g)} \rightarrow \text{TiCl}_4\text{(g)}$?

Please choose only one answer:

- 5.00 L
- 10.0 L
- 20.0 L
- 40.0 L

Check the answer of this question online at QuizOver.com:

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4.1.5. In a phase diagram, if a sample is at low pressure and high tempera...

Author: Joanna Smithback

In a phase diagram, if a sample is at low pressure and high temperature, it is likely to be in what phase?

Please choose only one answer:

- Liquid
- Gas
- Solid
- Both A and C

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4.1.6. Ionic crystals have the following properties.

Author: Joanna Smithback

Ionic crystals have the following properties.

Please choose only one answer:

- Long range order
- Amorphous
- Made up of neutral molecules
- None of the above

Check the answer of this question online at QuizOver.com:

Question: [Ionic crystals have the following properties Joanna @Saylor Foundat](#)

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4.1.7. Nitrogen gas has a pressure of 452 mm Hg. What is the pressure in a...

Author: Joanna Smithback

Nitrogen gas has a pressure of 452 mm Hg. What is the pressure in atmospheres?

Please choose only one answer:

- 4.52 atm
- 0.595 atm
- 0.452 atm
- 1.68 atm

Check the answer of this question online at QuizOver.com:

Question: [Nitrogen gas has a pressure of 452 mm Hg Joanna Smithback @Saylor](#)

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4.1.8. The atmospheric pressure on a nice day is 751 mm Hg. What is this p...

Author: Joanna Smithback

The atmospheric pressure on a nice day is 751 mm Hg. What is this pressure in atmospheres?

Please choose only one answer:

- 0.751 atm
- 7.51 atm
- 0.988 atm
- 1.01 atm

Check the answer of this question online at QuizOver.com:

Question: [The atmospheric pressure on a nice day is Joanna Smithback @Saylor](#)

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4.1.9. The liquid to gas phase transition for the drying rainwater on a ro...

Author: Joanna Smithback

The liquid to gas phase transition for the drying rainwater on a road, following a rainstorm, is described to be what?

Please choose only one answer:

- Boiling
- Evaporation
- Sublimation
- None of the above

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4.1.10. The volume of a certain gas sample is 1150 mL at a temperature of 2...

Author: Joanna Smithback

The volume of a certain gas sample is 1150 mL at a temperature of 25°C. At what temperature would that same gas sample have a volume of 1.53 L at constant pressure and mass?

Please choose only one answer:

- -49.1°C
- 124°C
- 248°C
- 397°C

Check the answer of this question online at QuizOver.com:

Question: [The volume of a certain gas sample is 11 Joanna Smithback @Saylor](#)

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4.1.11. The volume of a certain gas sample is 235 mL at a temperature of 25...

Author: Joanna Smithback

The volume of a certain gas sample is 235 mL at a temperature of 25°C. At what temperature would that same gas sample have a volume of 310 mL at constant pressure and mass?

Please choose only one answer:

- -47.0°C
- 33.1°C
- 69.4°C
- 120°C

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [The volume of a certain gas sample is 23 Joanna Smithback @Saylor](http://www.quizover.com/question/the-volume-of-a-certain-gas-sample-is-23-joanna-smithback-saylor?pdf=3044)

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4.1.12. What is the pressure in atmospheres of a gas mixture that consists ...

Author: Joanna Smithback

What is the pressure in atmospheres of a gas mixture that consists of 0.200 moles of nitrogen and 0.300 moles of oxygen in a 1250 mL container at 0°C?

Please choose only one answer:

- 0.00897 atm
- 0.897 atm
- 1.79 atm
- 8.97 atm

Check the answer of this question online at QuizOver.com:

Question: [What is the pressure in atmospheres of a Joanna Smithback @Saylor](#)

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4.1.13. What is the pressure in atmospheres of a gas mixture that consists ...

Author: Joanna Smithback

What is the pressure in atmospheres of a gas mixture that consists of 8.80 grams of nitrogen and 8.80 grams of carbon dioxide in a 2.01 liter container at 27°C?

Please choose only one answer:

- 6.30 atm
- 3.85 atm
- 2.45 atm
- 0.971 atm

Check the answer of this question online at QuizOver.com:

Question: [What is the pressure in atmospheres of a Joanna Smithback @Saylor](#)

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4.1.14. You have O_2 gas with a pressure of 0.32 atm. What is the...

Author: Joanna Smithback

You have O_2 gas with a pressure of 0.32 atm. What is the gas pressure in mm Hg?

Please choose only one answer:

- 240 mm Hg
- 0.24 mm Hg
- 0.0041 mm Hg
- 24 mm Hg

Check the answer of this question online at QuizOver.com:

Question: [You have \$O_2\$ gas with a pressure Joanna Smithback @Saylor](#)

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