



The volume of one mole of any gas at room temperature and pressure is 24 dm^3

- 1 What is the volume of 0.50 moles of hydrogen gas (H_2) at room temperature and pressure?

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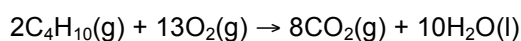
- 2 How many moles in 1.8 dm^3 of helium gas (He) at room temperature and pressure?

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- 3 What is the volume of 7.0 g of nitrogen gas (N_2) at room temperature and pressure?

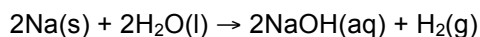
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- 4 What volume of oxygen gas reacts with 100 cm^3 of butane gas, with both gases measured at the same temperature and pressure?



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- 5 What volume of hydrogen gas, measured at room temperature and pressure, is formed when 6.9 g of sodium reacts with water?



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