

Answer on Question #44633 - Chemistry – Other

Question

In the reaction, $2\text{Na (s)} + 2\text{H}_2\text{O (l)} \rightarrow 2\text{NaOH (aq)} + \text{H}_2 \text{ (g)}$, which of the reactants or products is in the gas phase?

- a.... Na
- b.... H₂O
- c.... NaOH
- d.... H₂

Answer:

In this reaction sodium and water are reactants and sodium hydroxide and hydrogen are products. Sodium is solid, water is liquid, sodium hydroxide is aqueous and hydrogen is gas. So, in this reaction only H₂ is in the gas phase.

Answer: d.... H₂