

Answer on Question #44635 – Chemistry - Other

Question

Dear expert, please provide an answer to the question below within 24 hours.

Which of these reactions is correct for nitrogen gas reacting with hydrogen gas to form gaseous ammonia?

- a.... $\text{N}_2 (\text{g}) + 3\text{H}_2 (\text{g}) \rightarrow 2\text{NH}_3 (\text{s})$
- b.... $\text{N}_2 (\text{g}) + 3\text{H}_2 (\text{g}) \rightarrow 3\text{H}_2 (\text{g}) + 2\text{NH}_3 (\text{s})$
- c.... $2\text{NH}_3 (\text{g}) \rightarrow \text{N}_2 (\text{g}) + 3\text{H}_2 (\text{g})$
- d.... $\text{N}_2 (\text{g}) + 3\text{H}_2 (\text{g}) \rightarrow 2\text{NH}_3 (\text{g})$

Answer

The answer is **d**.... $\text{N}_2 (\text{g}) + 3\text{H}_2 (\text{g}) \rightarrow 2\text{NH}_3 (\text{g})$