

Answer on Question #72659, Chemistry / General Chemistry

Question:

Tungsten metal is manufactured by the reaction of Tungsten Trioxide (WO_3) with Hydrogen (H_2). Water is a byproduct of this reaction.

What is the balanced equation for this reaction?

- A. $\text{WO}_3 + \text{H}_2 \rightarrow \text{W} + \text{H}_2\text{O}$
- B. $\text{WO}_3 + 3\text{H}_2 \rightarrow \text{W} + 3\text{H}_2\text{O}$
- C. $\text{WO}_3 + 3\text{H}_2 \rightarrow \text{W} + \text{H}_2\text{O}$
- D. $2\text{WO}_3 + 3\text{H}_2 \rightarrow 2\text{W} + 6\text{H}_2\text{O}$
- E. None of the Above

Answer:

- B. $\text{WO}_3 + 3\text{H}_2 \rightarrow \text{W} + 3\text{H}_2\text{O}$

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