

Answer on Question #44638 – Chemistry - Other

Question

Which of these is the correct word equation for the reaction, $3\text{H}_2 (\text{g}) + 6\text{C} (\text{s}) \rightarrow \text{C}_6\text{H}_6 (\text{l})$?

- a.... Solid carbon reacts with hydrogen gas to form liquid benzene.
- b.... Solid carbon reacts with hydrogen gas to form gaseous benzene.
- c.... Liquid benzene decomposes to form solid carbon and hydrogen gas.
- d.... Solid carbon decomposes to form hydrogen gas and liquid benzene.

Answer

The answer is **a**.... Solid carbon reacts with hydrogen gas to form liquid benzene.