

## **ORGOREVIEW**

## Question Vault

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Choose the incorrect statement about the generally accepted free radical reaction mechanism for the chlorination of methane.

$$CH_4$$
 +  $CI^{\bigcirc}$   $\longrightarrow$   $CH_3CI$  +  $HCI$ 

a) The change in enthalpy of the following propagation step is -16 kJ/mol.

CH<sub>4</sub> + • CI 
$$\longrightarrow$$
 • CH<sub>3</sub> + HCI  $\triangle$  H<sup>0</sup> = -16kJ/mole

b) The change in enthalpy for the following termination step is -352 kJ/mol.

•CH<sub>3</sub> + •CI 
$$\longrightarrow$$
 CH<sub>3</sub>CI  $\triangle$  H<sup>0</sup> = -352kJ/mole

- c) Chlorine atoms are produced in the initiation step.
- d) Methyl radicals are produced in one of the propagation steps.
- e) Only a small fraction of the chloromethane observed is formed by the following reaction.

$$\circ$$
 (A)  $\circ$  (B)  $\circ$  (C)  $\circ$  (D)  $\circ$  (E)

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