## Question # 78485, Chemistry / General Chemistry

Hess's Law states that \_\_\_\_\_.

A. the enthalpy of a given substance is independent of the way it was made

B. the enthalpy of a given substance depends on the way it was made

C.  $\Delta H$  is the change in entropy that occurs in a chemical reaction

D.  $\Delta Ho = \Sigma \Delta Hfo$  (reactants) –  $\Sigma \Delta Hfo$  (products)

E. None of the Above

**Solution:** The law states that the total enthalpy change during the complete course of a chemical reaction is the same whether the reaction is made in one step or in several steps.

Hess's law states that enthalpy changes are additive. Thus the  $\Delta H$  for a single reaction

 $\Delta$ Ho = Σ  $\Delta$ Hfo (products) – Σ  $\Delta$ Hfo (reactants)

## Answer: A

Source: https://en.wikipedia.org/wiki/Hess%27s\_law

Answer provided by AssignmentExpert.com