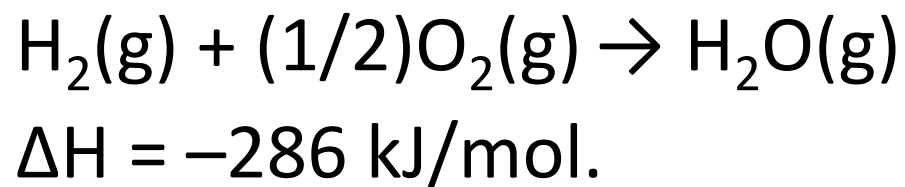




For this reaction

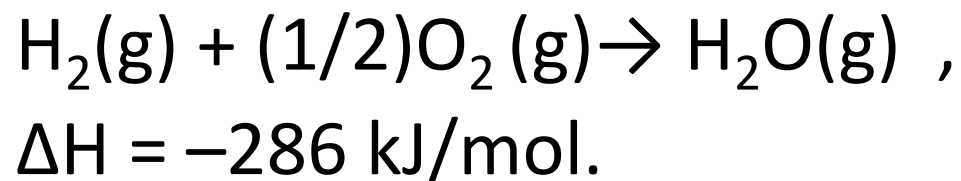


is $p\Delta V$

1. positive,
2. negative,
3. zero?



For this reaction (occurring in a vessel at STP)



is the magnitude of the internal energy change ($|\Delta U_{\text{int}}|$)

1. Greater than 286 kJ/mol?
2. Less than 286 kJ/mol?
3. Equal to 286 kJ/mol?

(Hint: Estimate the value of $p\Delta V$)