

# Word Questions

5. When ammonium nitrate is mixed with water, the resulting solution quickly becomes very cold. Why? (1 mark per major point)

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6. What are the two fundamental driving forces in thermodynamics?

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2. What is the difference between  $Q$  and  $\Delta H$ ? Why are these two quantities equal in magnitude but opposite of sign for a given chemical or physical change? (1 mark per main point)

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2. Please write the combustion reaction of hexane ( $C_6H_{14}(l)$ ) as thermodynamic equation and as a thermochemical equation. The heat of combustion of hexane is  $-4162.9 \text{ kJ}$

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