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Standard Enthalpy Changes

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The enthalpy change for a reaction can be calculated using the following equation:  $\Delta H = \sum \Delta H_f(\text{products}) - \sum \Delta H_f(\text{reactants})$   $\Delta H$  is the

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enthalpy change (in kJ or kJ mol<sup>-1</sup>) c is the specific heat capacity...

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Calculating enthalpy changes -  
Chemical energy - Higher ...

That means that:  $\Delta H - 3267 = 6$

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$(-394) + 3(-286)$  Rearranging and solving:  $\Delta H = 3267 + 6(-394) + 3(-286)$   $\Delta H = +45 \text{ kJ mol}^{-1}$ .

Note: If you have a good memory, you might remember that I gave a figure of  $+49 \text{ kJ mol}^{-1}$  for the standard enthalpy change of formation of benzene on an

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earlier page in this section.

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Hess's Law and enthalpy change  
calculations

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chemhume.co.uk

Definition: The Mean bond enthalpy is the Enthalpy change when one mole of bonds of (gaseous covalent) bonds is broken (averaged over different molecules) These values are

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positive because energy is required to break a bond. The definition only applies when the substances start and end in the gaseous state.

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## 3.2.1. Enthalpy changes

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Enthalpy is given the symbol  $H$   
Enthalpy change refers to the amount of heat released or absorbed when a chemical reaction and it is given the symbol  $\Delta H$  A reaction is exothermic when it releases energy, and  $\Delta H = \text{negative}$ . A

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reaction is defined endothermic when it absorbs energy, therefore the  $\Delta H =$  positive.

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Enthalpy Changes | A-Level  
Chemistry Revision Notes  
Chemists call this energy change

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as the enthalpy change of the reaction. Exothermic reactions have a negative enthalpy change, that is they transfer energy to their surroundings. Endothermic reactions have a positive enthalpy change, that is they take in energy from their surroundings.

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## Enthalpy Change - Chemistry A-Level Revision

The most basic way to calculate enthalpy change uses the enthalpy of the products and the reactants. If you know these

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quantities, use the following formula to work out the overall change:  $\Delta H = H_{\text{products}} - H_{\text{reactants}}$  The addition of a sodium ion to a chloride ion to form sodium chloride is an example of a reaction you can calculate this way.

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How to Calculate Enthalpy Change | Sciencing  
Enthalpy change of solution  
Defining enthalpy change of solution. The enthalpy change of solution is the enthalpy change

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when 1 mole of an ionic...

Thinking about dissolving as an energy cycle. Why is heat sometimes evolved and sometimes absorbed when a substance... lattice dissociation enthalpy.. ...

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enthalpies of solution and hydration

First, notice that the symbol for a standard enthalpy change of reaction is  $\Delta H^\circ_r$ . For enthalpy changes of reaction, the "r" (for reaction) is often missed off - it is

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just assumed. The " $\text{kJ mol}^{-1}$ " (kilojoules per mole) doesn't refer to any particular substance in the equation.

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VARIOUS ENTHALPY CHANGE DEFINITIONS

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Once you know the change in enthalpy, you need to know the number of moles of the relevant compound to calculate the answer. Using the Periodic Table to add up the masses of hydrogen and oxygen atoms in hydrogen peroxide, you find the molecular

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mass of  $\text{H}_2\text{O}_2$  is 34.0 (2 x 1 for hydrogen + 2 x 16 for oxygen), which means that 1 mol  $\text{H}_2\text{O}_2$  = 34.0 g  $\text{H}_2\text{O}_2$  .

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Example Problem of Enthalpy  
Change of a Reaction

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enthalpy change? 1) Calculate the standard enthalpy of formation of magnesium carbonate, using the following information. the standard enthalpy of combustion of magnesium is  $-602 \text{ kJ mol}^{-1}$  and that...

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enthalpy change? | Yahoo  
Answers

The standard enthalpy change for the following reaction is 401 kJ at 298 K.  $2 \text{CH}_3\text{OH}(\text{g}) + 2 \text{C}(\text{s, graphite}) + 4 \text{H}_2(\text{g}) + \text{O}_2(\text{g})$   
 $\Delta H^\circ = 401 \text{ kJ}$  What is the

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standard enthalpy change for this reaction at 298 K?  $C(s, \text{graphite}) + 2 H_2(g) + \frac{1}{2} O_2(g) \rightarrow CH_3OH(g)$  = kJ

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Answered: The standard enthalpy change for the... | bartleby

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Enthalpy Change: At uniform pressure, the heat content of any specific system is referred to as enthalpy. The symbol  $H$  is utilized to denote enthalpy and  $\Delta H$  is utilized to denote enthalpy...

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What is the enthalpy change for the below reaction? You ...

(c) If the enthalpy of vapourisation of water is  $+40.7 \text{ kJmol}^{-1}$  and the enthalpy of vapourisation of cyclohexane is  $+30.0 \text{ kJmol}^{-1}$ , from your answer

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to (b), recalculate the enthalpy of combustion of cyclohexane. You need to think about which state changes are endothermic and which state changes are exothermic!

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A Level GCE Enthalpy Calculations  
bond energy calculations ...

$\Delta H_{\text{rxn}}$   $\Delta H_{\text{rxn}}$  is the enthalpy change for the reaction.  
 $n$  is the number of moles of products.  $m$  is the number of moles of reactants.  $\Delta H_{\text{f}}$   $\Delta H_{\text{f}}$  is the enthalpy of formation of...

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What is the enthalpy change for the below reaction? You ...

The enthalpy change for the reaction of hydrogen gas with fluorine gas to produce hydrogen fluoride is  $-542 \text{ kJ}$  for the equation

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as written:  $\text{H}_2(\text{g}) + \text{F}_2(\text{g}) \rightarrow 2\text{HF}(\text{g})$  change of heat = -542 kJ

a) What is the enthalpy change per mole of hydrogen fluoride produced? b) Is the reaction exothermic or endothermic as written? c) What would be the enthalpy change for the reverse

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of the given equation ...

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Chemistry: Enthalpy Change? |  
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Hence, the enthalpy change of reaction is  $-300 \text{ kJ/mol}$  and the correct option is (a). Become a

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The enthalpy of formation for A is -100 kJ/mol, the ...

Answer to: Using the given

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reaction and the enthalpy of formation values below, what is the enthalpy change for the following reaction?  $\text{H}_2\text{O}(\text{s})\dots$

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