

Enthalpy Worksheet

Chemistry II

using the average bond energy table below, calculate the enthalpy change in each of the following reactions.

Step 1. Balance the reaction.

Step 2. Classify the reaction.

Step 3. Determine bonds broken and calculate the positive enthalpy change of the reactants. For more complex molecules, draw their structure to help determine the bonds.

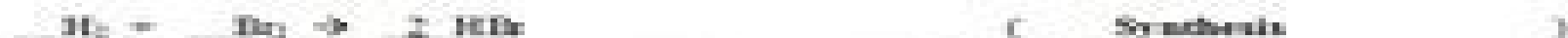
(NOTE - if two compounds contain the same types of bonds, they may be combined)

Step 4. Determine the bonds formed and calculate the negative enthalpy change of the products.

Step 5. Find the total enthalpy change by subtracting that of the products from the reactants.

H-Br 432 kJ/mol	I-I 148 kJ/mol	C-Cl 339 kJ/mol	O=O 495 kJ/mol
H-Cl 431 kJ/mol	O-Br 467 kJ/mol	N-Br 291 kJ/mol	C-C 347 kJ/mol
C-H 413 kJ/mol	Cl-Cl 239 kJ/mol	O=O 495 kJ/mol	C=O 745 kJ/mol
C=O 558 kJ/mol	C=C 614 kJ/mol	N-C 293 kJ/mol	C=O (for CO(g)) 799 kJ/mol
H-Br 432 kJ/mol	Br-Br 193 kJ/mol		

EXAMPLE:



	Bonds Broken			Bonds made	
	H ₂	Br ₂	→	HBr	
Bonds	1 H-H	1 Br-Br	→	2 H-Br	
Bond Energies	432	193		2(368)	
Total	625		-	736	= -111 kJ/mol



	Bonds Broken			Bonds made	
	H ₂	I ₂	→	HI	
Bonds	1 H-H	1 I-I	→	2 H-I	
Bond Energies	432	148		2(298)	
Total	580		-	590	= -10 kJ/mol



	Bonds Broken				Bonds made	
	C ₂ H ₄			→	CO ₂	H ₂ O
Bonds	1 C=C	4 C-H	3 O=O	→	2 C=O	2 O-H
Bond Energies	1316	4(413)	3(495)		2(799)	2(467)
Total	4858			-	2322	= 2536 kJ/mol



Enthalpy Change Chemistry Answer Sheet

O García

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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A Surface Chemistry 1 To prepare colloidal solution sol of starch
2 To prepare a colloidal solution of egg albumin
3 To prepare colloidal solution of gum
4 To prepare colloidal solution of aluminium hydroxide $Al(OH)_3$
5 To prepare colloidal solution of ferric hydroxide $Fe(OH)_3$
6 To prepare colloidal solution of arsenious sulphide As_2S_3
7 To purify a freshly prepared sol by dialysis
8 To compare the effectiveness of different common oils Castor oil cotton seed oil coconut oil kerosene oil mustard oil in forming emulsions

Viva Voce B Chemical Kinetics 1 To study the effect of concentration on the rate of reaction between sodium thiosulphate and hydrochloric acid
2 To study the effect of temperature on the rate of reaction between sodium thiosulphate and hydrochloric acid
3 To study the rate of reaction of iodide ions with hydrogen peroxide at different concentrations of iodide ions
4 To study the rate of reaction between potassium iodate KIO_3 and sodium sulphite Na_2SO_3 using starch solution as indicator

Viva Voce C Thermochemistry 1 Determine the enthalpy of dissolution of copper sulphate $CuSO_4 \cdot 5H_2O$ in water at Room temperature
2 To determine the enthalpy of neutralization of the reaction between HCl and $NaOH$
3 To determine enthalpy change during the interaction between acetone and chloroform

Viva Voce D Electrochemistry 1 To study the variation of cell potential in Zn/Zn^{2+} Cu/Cu^{2+} with change in concentration of electrolytes $CuSO_4$ or $ZnSO_4$ at room temperature

Viva Voce E Chromatography 1 To separate the coloured components pigment present in the given extract of leaves and flowers by ascending paper chromatography and find their R_f values
2 To separate the coloured components present in the mixture of red and blue inks by ascending paper chromatography and find their R_f values
3 To separate Co^{2+} and Ni^{2+} ions present in the given mixture by using ascending paper chromatography and determine their R_f values

Viva Voce F Preparation of Inorganic Compounds 1 Preparation of double salt of ferrous ammonium sulphate Mohr's salt from ferrous sulphate and ammonium sulphate
2 To prepare a pure sample of potash alum fitkari
3 Preparation of crystals of potassium ferric oxalate or potassium trioxalate ferrate III

Viva Voce G Preparation of Organic Compounds 1 Preparation of iodoform from ethyl alcohol or acetone
2 Preparation of acetanilide in laboratory
3 Preparation of β -Naphthol aniline dye
4 To prepare a pure sample of dibenzalacetone
5 To prepare a pure sample of p-nitro acetanilide

Viva Voce H Tests for the Functional Groups Present in Organic Compounds **Viva Voce I Study of Carbohydrates Fats and Proteins 1** To study simple reactions of carbohydrate
2 To study simple reactions of fats
3 To study simple reactions of proteins
4 To investigate presence of carbohydrates fats and proteins in food stuffs

Viva Voce J Volumetric Analysis 1 To prepare 250 ml of $M/10$ solution of oxalic acid
2 To prepare 250

ml of M 10 solution of ferrous ammonium sulphate 3 Prepare M 20 solution of oxalic acid with its help find out the molarity and strength of the given solution of potassium permanganate 4 Prepare M 20 solution of Mohr's salt using this solution determine the molarity and strength of potassium permanganate solution Viva Voce K Qualitative Analysis Viva Voce

INVESTIGATORY PROJECTS

- 1 To study the presence of oxalate ions in guava fruit at different stages of ripening
- 2 To study the quantity of casein present in different samples of milk
- 3 Preparation of soyabean milk and its comparison with natural milk with respect to curd formation effect of temperature etc
- 4 To study the effect of potassium bisulphite as food preservative at various concentrations
- 5 To study the digestion of starch by salivary amylase and the effect of pH and temperature on it
- 6 To study and compare the rate of fermentation of the following materials wheat flour gram flour potato juice and carrot juice
- 7 To extract essential oils present in saunf aniseed ajwain coriander illaichi cardamom
- 8 To detect the presence of adulteration in fat oil and butter
- 9 To investigate the presence of NO₂ in brinjal

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Cracking the SAT II Chemistry Theodore Silver, Princeton Review (Firm), 2005-03

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