

May 5-1:05 PM

Calorimeter

a device that is used to measure the energy absorbed or released as heat in a chemical reaction or a physical change

Temperature

a measure of the average kinetic energy of the particles ina a sample of matter Joule

the SI unit of heat as well as all other forms of energy

Heat

the energy transferred between samples of matter because of a difference in their temperatures

May 5-1:10 PM

Enthalpy change

the amount of energy absorbed by a system as heat during a process at constant pressure

Enthalpy of reaction

the quantity of energy transferred as heat during a chemical reaction

Exothermic energy is released from the system Endothermic energy is absorbed by the system Thermochemical equation an equation that includes the quantity of energy released or absorbed $4H_2(g) + 2O_2(g) \rightarrow 4H_2O(g) + 967.2kJ$

May 5-1:12 PM

Molar enthalpy of formation

the enthalpy change that occurs when one mole of a compound is formed from its elements in their standard state at 298 K and 1 atm

Enthalpy of Combustion

the enthalpy that occurs during the complete combustion of one mol of a substance



May 5-1:21 PM





May 5-1:31 PM

3- Quiz on pH and Thermal_Chem Letcture.notebook

CH4(g)	-74.8	HCl(g)	-92.3	
CO ₂ (g)	-393.5	H ₂ O(g)	-241.8	CO 110 F
NaCl(s)	-411.0	SO ₂ (g)	-296.1	<i>CO</i> = -110.5
H ₂ O(l)	-285.8	NH4Cl(s)	-315.4	
$H_2S(g)$	-20.1	NO(g)	+90.4	
H ₂ SO ₄ (l)	-811.3	NO ₂ (g)	+33.9	
MgSO ₄ (s)	-1278.2	SnCl ₄ (l)	-545.2	
MnO(s)	-384.9	SnO(s)	-286.2	
MnO ₂ (s)	-519.7	SnO ₂ (s)	-580.7	
NaCl(s)	-411.0	SO ₂ (g)	-296.1	
NaF(s)	-569.0	SO ₃ (g)	-395.2	
NaOH(s)	-426.7	ZnO(s)	-348.0	
NIL (a)	-46.2	ZnS(s)	-202.9	

May 5-1:48 PM





May 5-1:50 PM





May 5-1:51 PM

2 NO(g) + O₂(g) ---> 2 NO₂(g)

3- Quiz on pH and Thermal_Chem Letcture.notebook



May 11-7:36 AM