Chemistry, 10th Edition

General Chemistry 107: 1 &5 Taught by Abdullah Saleh

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## Results for ch6-B

## Your Assignment Results

You received 0 out of 10 possible points (not including any ungraded questions). Your final grade is 0 %

Question		Possible Points	Your Score
1.	An endothermic process	1	0
	<ul> <li>raises the temperature of one gram of a substance by one degree Celcius.</li> </ul>		-
	Correct answer: ( ) takes in heat from the surroundings.		
	<ul> <li>increases the acidity of the surroundings.</li> </ul>		
	gives off heat to the surroundings.		
	releases carbon dioxide into the surroundings.		
2.	The chemical equation describing the conversion of $SO_2$ into $SO_3$ is shown below. Calculate $\Delta H^o$ when 89.6	1	0
	g of $\mathrm{SO}_2$ is converted into $\mathrm{SO}_3$ .		
	$SO_2(g) + \frac{1}{2}O_2(g) \longrightarrow SO_3(g) \Delta H_{con} = -99.1 \text{ kJ}$		
	○ -69.3 kJ		
	Correct answer:    -139 kJ		
	○ 69.3 kJ		
	○ 139 kJ		
	○ -111 kJ		
2	How much energy in calories is required to heat 25.0 g of platinum (specific heat capacity = 0.032 cal/g.K)	1	0
3.	from 24.5 °C to 75.0 °C?	1	U
	O 20. cal		
	○ 80 cal		
	Correct answer: 0 40. cal		
	None of the above.		
4.	If a substance has a specific heat capacity of 1.0 J/g $\circ$ C and a density of 2.0 g/mL, how much energy would be	1	0
	required to raise the temperature of 100 mL of the substance from 25 to 45 °C?		
	○ 0.20 kJ		
	O 2.0 kJ		
	Correct answer: 0 4 kJ		
	○ 8 kJ		
5.	A 0.468-g sample of pentane ( $C_5H_{12}$ ) was burned in a bomb calorimeter. The temperature of the calorimeter and the 1.00 kg of water rose from 20.45 to 23.65 °C. The specific heat capacity of the calorimeter is 2.21 kJ/	1	0
	°C, and the specific heat capacity of water is 4.184 J/g °C. What is the heat of combustion of one mole of C <sub>5</sub>		
	H <sub>12</sub> ?		
	○ -7.07 x 10 <sup>3</sup> kJ/mol		
	Correct answer: 0 -3.16 x 10 <sup>3</sup> kJ/mol		
	1.34 x 10 <sup>4</sup> kJ/mol		
	3.16 x 10 <sup>3</sup> kJ/mol		
6.	Calculate the standard heat of formation of carbon disulfide $(CS_2)$ from its elements, $C(s) + 2 S(s) \longrightarrow CS_2(I)$ , given that:	1	0
	$C(s) + O_2(g)> CO_2(g)$ , $\Delta H = -393.5 \text{ kJ}$ ;		
	$S(s) + O_2(g)> SO_2(g)$ , $\Delta H = -296.8$ kJ; and		
	$CS_2(I) + 3 O_2(g)> CO_2(g) + 2 SO_2(g), \Delta H = -1076.8 \text{ kJ}.$		
	○ -1767.1 kJ		
	○ -386.5 kJ		
	Correct answer: 89.7 kJ		

		○ 386.5 kJ			
		None of the above			
7.	For which of the	substances below is $_{\Delta}\text{Ho}_{_{\mathbf{f}}}$ = 0?	1	0	
	Correct answer:	O <sub>2</sub> (g)			
		○ N <sub>2</sub> (I)			
		○ Na(g)			
		○ Xe(I)			
		Aand B			
8.	To which of the following reactions occurring a 25 °C does the symbol $_{\Delta}$ Ho $_{f}$ [H $_{2}$ O(I)] apply?			0	
		$\bigcirc H_2O(I) \longrightarrow 2 H(g) + O(g)$			
		$\bigcirc 2 H(g) + O(g) \longrightarrow H_2O(I)$			
		$H_2(I) + \frac{1}{2}O_2(I)> H_2O(I)$			
	Correct answer:	$H_2(g) + \frac{1}{2}O_2(g) \longrightarrow H_2O(I)$			
		$\bigcirc H_2O(g) \longrightarrow H_2O(I)$			
9.	The heat of solution of KCl is 17.2 kJ/mol, and the combined heats of hydration of one mole of gaseous chloride ions and one mole of gaseous potassium ions is -698 kJ. What is the lattice energy of potassium chloride?				
		○ -681 kJ/mol			
	Correct answer:	715 kJ/mol			
		○ -715 kJ/mol			
		○ -332 kJ/mol			
		○ 681 kJ/mol			
10.		rands in volume from 2.0 L to 24.5 L at constant temperature. Calculate the work done by the against a constant pressure of 5 atm.  112.5 J	1	0	
		1.24 x 10 <sup>4</sup> J			
	Correct answer:	○ -1.14 x 10 <sup>4</sup> J			
		O 113 J			
		1.14 x 10 <sup>4</sup> J			

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