

Name Key

1. Hydrogen,  $H_2$ , is used as rocket fuel. The hydrogen is burned in oxygen,  $O_2$ , according to the following equation. What is the enthalpy change if 200.0 g of hydrogen,  $H_2$ , is burned?



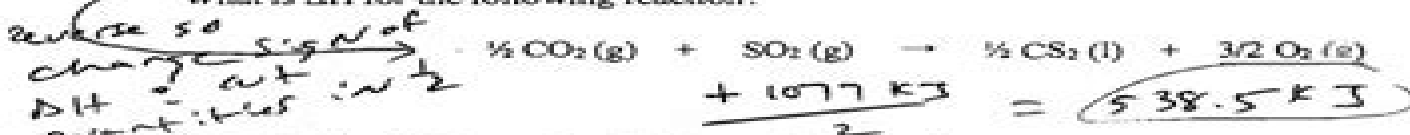
$$\frac{200.0 \text{ g } H_2}{2.016 \text{ g } H_2} \times \frac{1 \text{ mol } H_2}{1} = 99.2 \text{ mol } H_2$$

$$99.2 \text{ mol } H_2 \times \frac{-484 \text{ kJ}}{2 \text{ mol } H_2} = -24,006 \text{ kJ}$$

2. Carbon disulfide burns in air, producing carbon dioxide and sulfur dioxide.



What is  $\Delta H$  for the following reaction?



3. Following is the equation for the combustion of acetone:



How much heat will be given off (in kcal) if 4.5 mol of acetone is burned completely?

$$\frac{-853.6 \text{ kcal}}{2 \text{ mol } C_3H_6O} \times 4.5 \text{ mol } C_3H_6O = -1920.6 \text{ kcal}$$

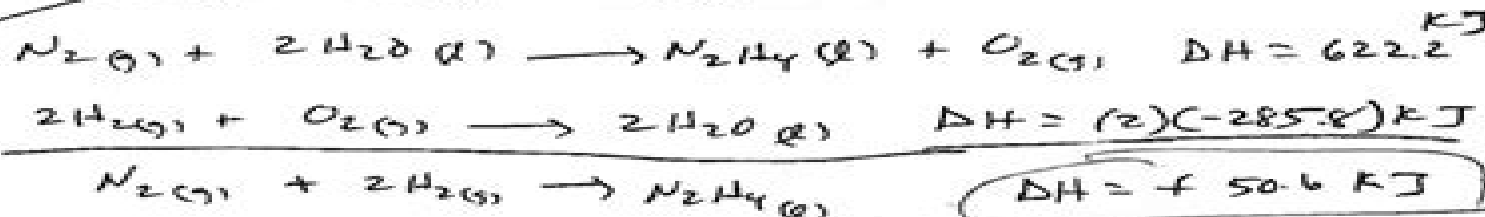
Exothermic

4. The specific heat of iron is  $0.110 \text{ cal} / \text{g} \cdot ^\circ\text{C}$ . How much heat must be added to 5.2 g of iron at  $25^\circ\text{C}$  to raise its temperature to  $225^\circ\text{C}$ ?

$$\text{heat} = q = m c \Delta T = (5.2 \text{ g}) \left( \frac{0.110 \text{ cal}}{\text{g} \cdot ^\circ\text{C}} \right) (225 - 25^\circ\text{C}) = 114.4 \text{ cal}$$

Endothermic

5. Hydrazine,  $N_2H_4$ , is a colorless liquid used as a rocket fuel. What is the enthalpy change for the process in which hydrazine is formed from its elements (reaction (1) below)? Use Hess's Law to calculate  $\Delta H$  for reaction (1) given the data below.



# 19 3 Chemistry Practice Problems Answer Key

**RJ Shavelson**



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 $\frac{3}{2}$   $\frac{2}{1}$   $\frac{1}{2}$   $\frac{1}{3}$  minimum work input to a multistage compressor for 2 stage  $\frac{2}{3}$   $\frac{1}{3}$   $\frac{1}{2}$   $\frac{1}{3}$   $\frac{2}{1}$   $\frac{1}{2}$   $\frac{1}{3}$  or  $\frac{2}{3}$   $\frac{1}{3}$

*numericals on centrifugal and axial compressors pdf scribd* - Apr 11 2023



web problems and solutions for cycle centrifugal axial compressors for all the exercises assume  $R = 287 \text{ J/kg K}$  and  $\gamma = 1.4$  for air  
determine the pressure ratio developed and the specific work input to drive a centrifugal air compressor having an impeller diameter of  $0.5 \text{ m}$  and running at  $7000 \text{ rpm}$  assume zero whirl at the

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web 1 a single stage double acting air compressor of  $150 \text{ kW}$  power takes air in at  $16 \text{ bar}$  delivers at  $6 \text{ bar}$  the compression follows the law  $pV^{1.35} = \text{const}$  the compressor runs at  $160 \text{ rpm}$  with average piston speed of  $150 \text{ m/min}$  determine the size of the cylinder given data power  $P = 150 \text{ kW}$  piston speed  $2 \ln 150 \text{ m/min}$

**basic steps to compressor unit calculation and selection intech** - Aug 03 2022

web compressor capacity is volume of compressed air flow upon a particular given time and is expressed in  $\text{m}^3/\text{hour}$  or  $\text{l/min}$   
various compressor types vary in capacity to specify particular application of compressor equipment amount of inlet air consumed upon a particular given time prior to compression is also considered a unit capacity

**numerical simulation of a centrifugal compressor academia edu** - Sep 04 2022

web numerical simulation of a centrifugal compressor ijera journal in this paper the tip clearance effects on flow field of a low speed centrifugal compressor without and with partial shroud  $ps$  fitted on to the rotor blade tip at three values of tip clearance viz  $2.2$ ,  $5.1$  and  $7.9$  of rotor blade height at the exit at three flow