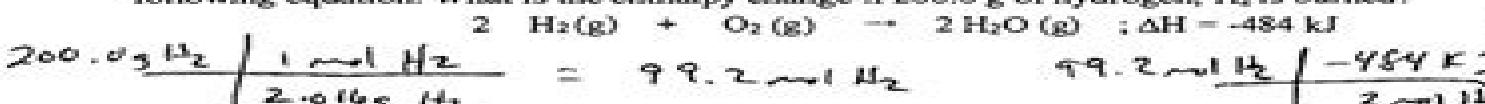


Name Kerf

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?



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



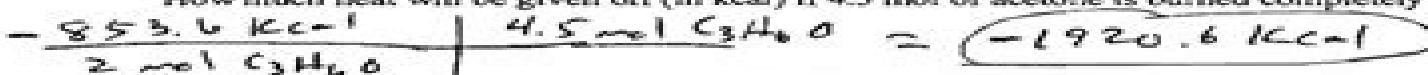
What is  $\Delta H$  for the following reaction?



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



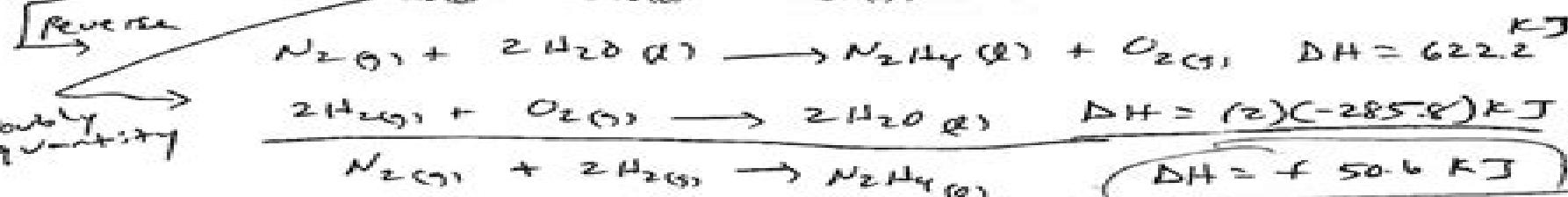
How much heat will be given off (in kcal) if 4.5 mol of acetone is burned completely?



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



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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web compressor capacity is volume of compressed air flow upon a particular given time and is expressed in m<sup>3</sup>/hour or 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

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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