

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?

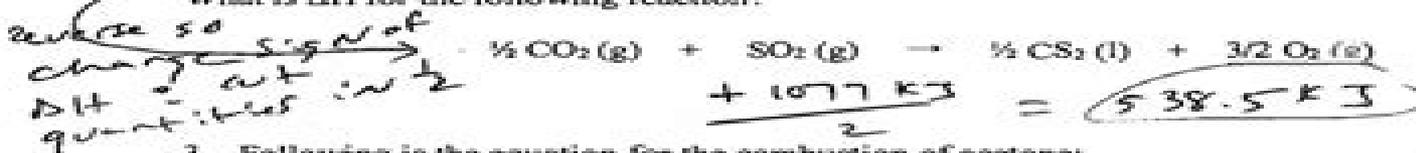


$$\frac{200.0 \text{ g } H_2}{2.016 \text{ g } H_2} \times \frac{1 \text{ mol } H_2}{1} = 99.2 \text{ mol } H_2 \quad \frac{99.2 \text{ mol } H_2}{2 \text{ mol } H_2} \times \frac{-484 \text{ kJ}}{1} = -24,006 \text{ kJ}$$

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



What is ΔH 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?

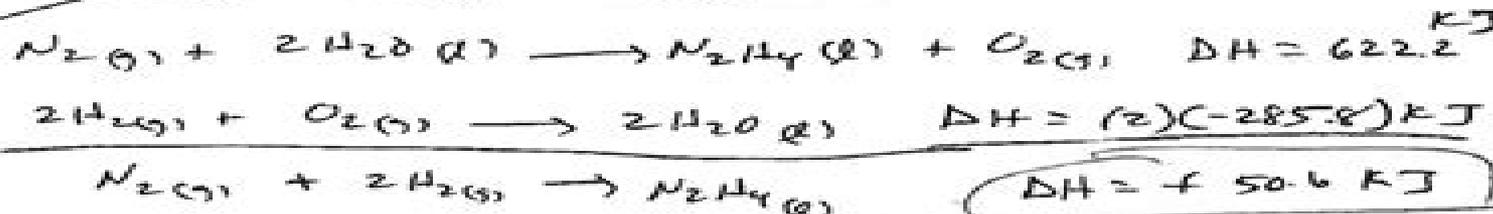
$$\frac{-853.6 \text{ kcal}}{2 \text{ mol } C_3H_6O} \times 4.5 \text{ mol } C_3H_6O = -1920.6 \text{ kcal}$$

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°C to raise its temperature to 225°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 ΔH for reaction (1) given the data below.



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web dec 31 2020 circuit diagram of the 555 timer latch circuit the schematic of the 555 timer based on off switch is given below in the circuit pin 2 and pin 6 are connected and pins 4 and 8 are also connected the output of the voltage divider circuit is

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web also called normally closed off delay relays one shot timers provide a single contact pulse of specified duration for each coil energization transition from coil off to coil on recycle timers provide a repeating sequence of on off contact pulses as long as the coil is maintained in an energized state

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web jul 28 2020 1 hardware components 2 ne555 ic pinout 3 working explanation you can find here a very useful automatic on and off relay circuit prototype this circuit is commonly used for many purposes such as a headlight for a car or a brake

light flasher or flashing an ac lamp etc

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web mar 21 2016 here i am going to explain different ways of building adjustable timer circuits however these methods are cost ineffective three circuits are explained here are 1 simple adjustable timer using 555 ic 2 a cyclic on off timer using 555 ic 3 adjustable timer using arduino 40 simple 555 timer circuits projects

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web apr 15 2013 schematic of the timer relay circuit 4541 datasheet working principle of the timer programming the time intervals is done by operating the dip switch that has 3 switches and with a potentiometer depending on the position of sw1 1 and 2 contacts the timer can be configured for the 4 time ranges as shown in tables

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web jul 25 2022 a simple delay off alarm circuit is shown in the following diagram the circuit was requested by dmats the following circuit was requested by fastshack3 delay timer with relay i am looking to build a circuit that would control an output relay this would be done in 12v and the sequence will be initiated by a manual switch

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web now if you want to reverse the operation of the circuit simply wire the blue and red wires together from the timer and connect it to the photo eye as shown in the figure now the circuit is reversed for example the light will turn off at night and switch on in the sunshine during the day good to know it is recommended to add a relay

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web mar 24 2019 here the time defining components both r and c are switched creating distinct rc pairs p1 r3 and c1 for the off time and another pair p2 r4 and c2 for the on time notably the relay remains unpowered when a

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web this type of positive feedback is also called hysteresis and provides a fast transition from the on to off state once turning off starts the off delay timing is mostly a function of c1 and r6 the exact delay is a bit hard to predict because it depends on the gain of the transistors particularly of q1

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using timer 555 ic bc 547 transistor you can use the for light fan and any other two cmos based 24 hour timers circuit diagram and instructions