## Preclass Assignment CHEM 1090-General Chemistry I

## Name:

## Section: 32, TR

## Due Date: Tuesday 3/17/2020

#14

1. Calculate the enthalpy of reaction for the decomposition of 500.0 g of nitroglycerin,  $C_3H_5N_3O_9(l)$ :

 $4 C_3 H_5 N_3 O_9(l) \rightarrow 6 N_2(g) + 12 CO_2(g) + 10 H_2 O(g) + O_2(g) \Delta H^\circ = -5660.0 \text{ kJ}$