

Participation Assignment

CHEM 1090-General Chemistry I

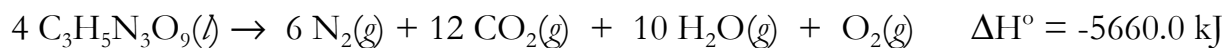
Name:

#14

Section: 32, TR

Due Date: Tuesday 11/20/2018

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



2. Write the ground-state electron configuration for each of the following atoms using the complete subshell notation (ie do not use a noble gas core):

a. H

b. He

c. Li

k. Na

d. Be

l. Mg

e. B

m. Al

f. C

n. Si

g. N

o. P

h. O

p. S

i. F

q. Cl

j. Ne

r. Ar

3. When $n = 8$, write the possible values of l .

4. When $l = 5$, write the possible values of m_l .