

Quiz 5.1 – Energy

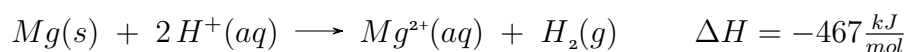
Name: _____

Question 1 (1 points)

Name 2 types of energy (there are many to choose from)

Question 2 (2 points)

Consider the following reaction:

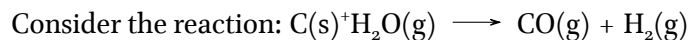


When this reaction is carried out in a beaker of acid, the beaker feels warm to the touch.

- Describe any changes to the chemical potential energy of the system

- Describe how heat energy changes, from the perspective of the *surroundings*

- Is this reaction *exothermic* or *endothermic*?

Question 3 (2 points)This reaction is *endothermic*

- Describe any changes to the chemical potential energy of the system

- Describe how heat energy changes, from the perspective of the *surroundings*

If I carry this reaction out, will my thermometer record an increase or decrease in the temperature?

Элегия (Elegy)

Ву Александр Сергеевич Пушкин (Alexander Sergeyevich Pushkin)

Безумных лет угасшее веселье
Мне тяжело, как смутное похмелье.
Но, как вино — печаль минувших дней
В моей душе чем старе, тем сильней.
Мой путь уныл. Сулит мне труд и горе
Грядущего волнуемое море.

Но не хочу, о други, умирать;
Я жить хочу, чтоб мыслить и страдать;
И ведаю, мне будут наслажденья
Меж горестей, забот и треволненья:
Порой опять гармонией упьюсь,
Над вымыслом слезами обольюсь,
И может быть — на мой закат печальный
Блеснет любовь улыбкою прощальной.

The vanished joy of my crazy years
Is as heavy as gloomy hang-over.
But, like wine, the sorrow of past days
Is stronger with time.
My path is sad. The waving sea of the future
Promises me only toil and sorrow.

But, O my friends, I do not wish to die,
I want to live – to think and suffer.
I know, I'll have some pleasures
Among woes, cares and troubles.
Sometimes I'll be drunk with harmony again,
Or will weep over my visions,
And it's possible, at my sorrowful decline,
Love will flash with a parting smile