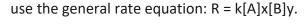
## Question #79441



Which term is dependent on temperature?

- A. [A]
- B. [B]
- C. R
- D.x + y
- E. None of the Above

## Answer:

The right answer is C. R.

Why? Because of that only, the rate constant depends on temperature [1]:

$$k = A * e^{\frac{-E_{\alpha}}{RT}},$$

where k-is the rate constant, T-is the temperature, A-is the pre-exponential factor (a constant for each chemical reaction),  $E_a-is$  the activation energy for the reaction, R-is the universal gas constant.

So, as there is no answer with the rate constant, the only right answer is C. R, as the rate of reaction depends on k.

## Reference:

[1] https://en.wikipedia.org/wiki/Arrhenius equation

Answer provided by AssignmentExpert.com