

Arrhenius equation

An equation that represents the dependence of the *rate constant* k of a reaction on the absolute temperature T :

$$k = A \exp(-E_a/RT)$$

In its original form the *pre-exponential factor* A and the *activation energy* E_a are considered to be temperature-independent.

See also *modified Arrhenius equation*.

1996, 68, 153; 1994, 66, 1086; 1990, 62, 2175