

Rate equations & Kp Knowledge organiser





2. Rate equation

k

А

е

Ea

R

Т

 $Rate=k[A]^m[B]^n$

Rate	The rate of reaction	Mol dm ⁻³ s ⁻¹
k	The rate constant (temperature dependent)	variable
[A]	Concentration of A	Mol dm ⁻³
m	Order of reaction with respect to A	
[B]	Concentration of B	Mol dm ⁻³
n	Order of reaction with respect to B	

3. Arrhenius equation

Temperature	К
Boyles gas constant	8.31 J/mol K
Activation energy	KJ mol ⁻¹
Euler's number (magic number e)	2.71
Arrhenius constant	S-1
The rate constant (temperature dependent)	variable



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Variable units

Pascals

Pascals

Pascals

Pascals

