



Kinetics for Set of Two Parallel Reactions Formulas

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Examples!

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1/6





List of 11 Kinetics for Set of Two Parallel Reactions Formulas

Kinetics for Set of Two Parallel Reactions C

() Average Life-Time for Set of Two Parallel Reactions C

() Average Life-Time for Set of Two Parallel Reactions C

() Concentration of Product B in Set of Two Parallel Reactions C

() Concentration of Product B in Set of Two Parallel Reactions C

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() Concentration of Product B in Set of Two Parallel Reactions C

() Concentration of Product B in Set of Two Parallel Reactions C

() Concentration of Product C in Set of Two Parallel Reactions C

() Concentration of Product C in Set of Two Parallel Reactions C

() Concentration of Product C in Set of Two Parallel Reactions C

() Concentration of Product C in Set of Two Parallel Reactions C

() R_c =
$$\frac{k_2}{k_1 + k_2} \cdot A_0 \cdot (1 - exp(-(k_1 + k_2))))$$

() Concentration of Reactant A fafer time t in Set of Two Parallel Reactions C

() Concentration of Reactant A fafer time t in Set of Two Parallel Reactions C

() R_a = A₀ · exp(-(k₁ + k₂) · t))

() Concentration of Reactant A for Set of Two Parallel Reactions C

() Concentration of Reactant A for Set of Two Parallel Reactions C

() R_a = A₀ · exp(-(k₁ + k₂



6) Rate Constant for Reaction A to B for Set of Two Parallel Reactions

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Variables Used

- A0 Initial Concentration of Reactant A (Mole per Liter)
- **k**₁ Reaction Rate Constant 1 (1 Per Second)
- k₂ Reaction Rate Constant 2 (1 Per Second)
- RA Reactant A Concentration (Mole per Liter)
- R_b Concentration of Reactant B (Mole per Liter)
- R_C Concentration of Reactant C (Mole per Liter)
- Rb:Rc Ratio B to C
- t Time (Second)
- t_{1/2av} Life Time for Parallel Reaction (Second)
- t_{1/2avg} Average Life Time (Second)
- TctoA Time C to A for 2 Parallel Reaction (Second)
- T_{PR} Time for Parallel Reaction (Second)



4/6



Constants, Functions, Measurements used

- Function: exp, exp(Number) Exponential function
- Function: In, In(Number) Natural logarithm function (base e)
- Measurement: Time in Second (s) Time Unit Conversion
- Measurement: Molar Concentration in Mole per Liter (mol/L) Molar Concentration Unit Conversion
- Measurement: First Order Reaction Rate Constant in 1 Per Second (s⁻¹) First Order Reaction Rate Constant Unit Conversion





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