



# **Consecutive Reactions Formulas**

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### **List of 9 Consecutive Reactions Formulas**

## Consecutive Reactions 🕑





#### 6) Maximum Concentration of Intermediate B in First Order Consecutive Reaction 🕑



# Variables Used

- [B] Concentration of B at Time t (Mole per Liter)
- [C] Concentration of C at Time t (Mole per Liter)
- A Concentration of A at Time t (Mole per Liter)
- A<sub>0</sub> Initial Concentration of Reactant A (Mole per Liter)
- k<sub>1</sub> Reaction Rate Constant 1 (1 Per Second)
- k<sub>2</sub> Rate Constant of Reaction 2 (1 Per Second)
- RA:B A to B Ratio
- RB:A B to A Ratio
- t Time (Second)
- t<sub>1/2,A</sub> Half life of A (Second)
- t<sub>1/2,B</sub> Half life of B (Second)
- tmaxB Time at maxB (Second)





# **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<sup>-1</sup>) First Order Reaction Rate Constant Unit Conversion





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10/1/2023 | 12:37:01 PM UTC

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