

HALF-LIFE FORMULA

Derivation of Half-Life Formula

from the equation

$$N = N_0 e^{-\lambda T_{1/2}}$$

$$\text{If } N = \frac{N_0}{2}$$

$$\Rightarrow \frac{N_0}{2} = N_0 e^{-\lambda T_{1/2}}$$

$$\Rightarrow \frac{1}{2} = e^{-\lambda T_{1/2}}$$

Taking log of both sides

$$\log_e \frac{1}{2} = \log_e e^{-\lambda T_{1/2}}$$

Therefore

$$\text{Sin } \log_e e^n = n$$

Nuclear Chemistry Half Life Solutions

Xiang Xie

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red-to-white gradient semi-circle behind it.

Nuclear Chemistry Half Life Solutions:

Selected Solutions for Chemistry, Concepts and Models by Robinson, Odom, and Holtzclaw John H. Meiser, 1992

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