

#83405 Chemistry, Physical Chemistry

Find out the effective half life for A in the following radioactive change:

A—B ( $t_{1/2} = 6$  hours)

A—C ( $t_{1/2} = 12$  hours)

Answer:

$$T_{eff} = \frac{T_{phys} \times T_{biol}}{T_{phys} + T_{biol}}$$

$T_{phys}$ : physical half-life

$T_{biol}$ : biological half-life

$$T_{eff} = \frac{6 \times 12}{6 + 12} = 4 \text{ hours}$$

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