# compartmental analysis

Mathematical process leading to a model of transport of a substance in terms of compartments and rate constants, usually taking the form

$$C = A\,\mathrm{e}^{-\alpha\,t} + B\,\mathrm{e}^{-\beta\,t}\ldots$$

where each exponential term represents one experiment. $C$ is the substance concentration; $A$, $B$,… are proportionality constants; $\alpha$, $\beta$,… are rate constants; and $t$ is time.

*Source:*
PAC, 2004, *76*, 1033 *(Glossary of terms used in toxicokinetics (IUPAC Recommendations 2003))* on page 1045