

kinetic activity factor

A factor involving activity coefficients that appears as a multiplier in the rate equation. For a bimolecular reaction the factor is $y_A y_B / y_{\ddagger}$, where y_A , y_B and y_{\ddagger} are the activity coefficients for the reactants A and B and the activated complex, respectively. For a unimolecular reaction the factor is y_A / y_{\ddagger} , and for a trimolecular reaction it is $y_A y_B y_C / y_{\ddagger}$.

1996, 68, 171