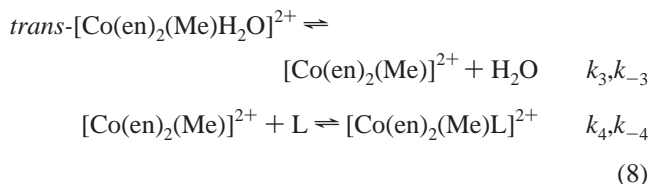


Additions and Corrections

2000, Vol. 39

Mohamed S. A. Hamza, Carlos Dücker-Benfer, and Rudi van Eldik*: Ligand Substitution Behavior of a Simple Model for Coenzyme B₁₂

Page 3782. Equations 8 and 9 and the subsequent paragraph must be replaced by the following:



$$\begin{aligned} k_{\text{obs}} &= \{k_3k_4[\text{L}] + k_{-3}k_{-4}\} / \{k_4[\text{L}] + k_{-3}\} \\ &= k_3k_4[\text{L}] / k_{-3} + k_{-4} \end{aligned} \quad (9)$$

According to this rate law, $k_a = k_3k_4/k_{-3} = k_4K_3$, such that $\Delta V^\ddagger(k_a) = \Delta V^\ddagger(k_4) + \Delta V(K_3)$. In this case the volume changes associated with $\Delta V^\ddagger(k_4)$ and $\Delta V(K_3)$ are also expected to partially cancel each other, since $\Delta V(K_3)$ must be significantly positive, ca. 13 cm³ mol⁻¹ for the dissociation of a water molecule from an octahedral complex, and $\Delta V^\ddagger(k_4)$ must be negative for the binding of L.^{28,41} Thus on the basis of the observed volumes of activation it is not possible to distinguish between an I_d and D mechanism in this particular case. We can only conclude that significant bond breakage must occur in the transition state, giving it a dissociative character. Weak bond formation with the entering nucleophile in the transition state cannot be ruled out.

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2000, Volume 39

Martin Köckerling* and Enric Canadell*: Electronic Structures of M₂₁S₈ (M = Nb, Zr) and (M,M')₂₁S₈ (M, M' = Hf, Ti; Nb, Ta) Phases and Reasons for Variations in the Metal Site Occupations.

Pages 4200–4205: All formulas Nb_{6,9}Ta_{14,1}S₈ throughout the article should read Nb_{14,8}Ta_{6,2}S₈. The results and discussion of the article correspond, however, to the correct formula.

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