

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments	Reference
336	1,1'-Dimethyl-4,4'-bipyridinium Ion	$\text{H} \cdot + \text{MV}^{2+} \longrightarrow$	1	$6.0 \times 10^8$	p.r.; Computer simulation based on p.b.k. at 390 (as well as abs. at 310, 470 and 595) nm in air-free soln. contg. $2 \times 10^{-2}$ mol L <sup>-1</sup> MV <sup>2+</sup> and $5 \times 10^{-3}$ mol L <sup>-1</sup> Cl <sup>-</sup> ; corr. for Cl <sub>2</sub> <sup>-</sup> and ClOH <sup>-</sup> formn. and decay; addn. to N (protonated methyl viologen radical cation) formn. and to C (H adduct) occurred in approx. equal amounts [84A322].	82A216