

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments	Reference
445	Technetate(VII) Ion	$\text{e}_{\text{aq}}^- + \text{TcO}_4^{2-} \longrightarrow \text{TcO}_4^-$	6.0-6.5	$1.0 \times 10^{10}$	p.r.; D.k. at 580 nm in Ar satd. soln. contg. tert-BuOH and K <sup>99</sup> TcO <sub>4</sub>	81A173
				13	$2.5 \times 10^{10}$	p.r.; D.k. in
				~7	$1.3 \times 10^{10}$	p.r.; D.k. at