

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments	Reference
154	Technetate(VII) ion	$\text{H}^\bullet + \text{TcO}_4^- \longrightarrow$	2	$> 1 \times 10^{10}$	$\gamma$ -r.; Estd. from % redn. ( <i>tert</i> -BuOH as scavenger) compared with soln. contg. hydrated electrons at pH 7.	81A173