No.	Compound name	Reaction equation	рН	Rate constant $(L \text{ mol}^{-1} \text{ s}^{-1})$	Comments	Reference
159	Hydrogen peroxide	$. OH + H_2O_2 \longrightarrow O_2^{\bullet -} + H_2O$		$2.7 \times 10^{7}$	Average of 4 values.	
	, , ,		7.8	$2.7 \times 10^7$	-	82A096
			7	$2.0\times10^7$	p.r.; C.k.; rel. to $k(.OH + SCN^{-})$ .	81A374
			7.7-11.0	$3.8 \times 10^7$	p.r.; C.k.; obs. luminol radical; rel. to $k(.OH + luminol)$ .	80A221
			7	$2.4 \times 10^7$	p.r.; C.k.; rel. to $k(.OH + I^{-})$ .	650010