No.	Compound name	Reaction equation	рН	Rate constant $(L \operatorname{mol}^{-1} \operatorname{s}^{-1})$	Comments	Reference
171	Acetanilide	$\mathrm{H^{\cdot}} + \mathrm{C_6H_5NHCOCH_3} - \mathrm{C_6H_6NHCOCH_3}$	<del></del>	$1.0 \times 10^{9}$	Average of 2 values.	
				1	$1.0 \times 10^{9}$	$\varepsilon$ -r.; esr; Decay
				8-9	$9.9 \times 10^{8}$	$\gamma$ -r.; C.k.; rel. to