

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments	Reference
107	Phenylacetate Ion	$\text{O}^{\bullet-} + \text{C}_6\text{H}_5\text{CH}_2\text{CO}_2^- \longrightarrow \text{OH}^- + \text{C}_6\text{H}_5\text{CHCO}_2^-$	14	$2 \times 10^8$	p.r.; P.b.k. at 290 nm; $k_{obs} = 2.2 \times 10^8$ ; assume $\cdot\text{OH}$ contribution is $6.2 \times 10^7$ .	720047