

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments	Reference
183	N-Acetylphenylalanine	$\text{H}\cdot + \text{AcPhe} \longrightarrow \text{C}_6\text{H}_8\text{CH}_2\text{CH}(\text{NHCOCH}_3)\text{CO}_2\text{H}$	2.0	$1.1 \times 10^9$	p.r.; P.b.k. at 313 nm. in soln. contg. <i>tert</i> -BuOH and $5\text{--}20 \times 10^{-4}$ mol L <sup>-1</sup> AcPhe, HClO <sub>4</sub> at pH 2 and NaH <sub>2</sub> PO <sub>4</sub> at pH 6.4; at pH 6.4 $k = (8.5 \pm 0.8) \times 10^8$ .	741129