

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments	Reference
414	4-tert-Butyl-1,2-dihydroxybenzene	$\cdot\text{OH} + (\text{CH}_3)_3\text{CC}_6\text{H}_3(\text{OH})_2 \longrightarrow (\text{CH}_3)_3\text{CC}_6\text{H}_3(\text{OH})_3$	7.0	7.6×10^9	p.r.; P.b.k. at 338 nm; OH adduct loses water giving semiquinone ($pK_a = 5.2$), abs. at 313 nm; $k = 7.8 \times 10^9$ at pH 10.5 (substrate $pK_a = 9.60$) by p.b.k. at 313 nm.	79A099