

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments	Reference
179	Acetylene	$\text{H}^{\cdot+} \text{HC}\equiv\text{CH} \longrightarrow$	1	2.2×10^9	p.r.; C.k. with phenol in Ar-satd. soln., obs. phenol-H adduct at 330 nm; rel. to $k(\text{H}^{\cdot+} + \text{PhOH})$.	78A007