

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments	Reference
1412	Sulfacetamide	$e_{aq}^- + H_2NC_6H_4SO_2NHA c \longrightarrow [H_2NC_6H_4SO_2NHA c]^-$	7.0	$2.2 \times 10^{10}$	p.r.; D.k. at 700 nm in Ar-purged soln. contg. 0.5 mol L <sup>-1</sup> tert-BuOH and $5 \times 10^{-4}$ mol L <sup>-1</sup> substrate; (also detd. $k = 2.0 \times 10^{10}$ by f.p. where $e_{aq}^-$ is produced by photolysis of substrate).	82A138