

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments	Reference
619	Barbituric acid	e <sub>aq</sub> <sup>-</sup> + C <sub>4</sub> H <sub>4</sub> N <sub>2</sub> O <sub>3</sub> →	2.6	1.1 × 10 <sup>10</sup>	y-r.; C.k.; $pK_n = 3.9, 12.5$ ; calcd. from values obs. at pH 2.6, 4.0, 5.0 and 7.6; $k_{obs.} = 1.1 \times 10^{10}$ at pH 2.6; rel. to $k(\text{e}_{\text{aq}}^- + \text{BrPhOH})$ .	720027