

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments	Reference
1298	Orotate ion	$\text{e}_{\text{aq}}^- + 6\text{-UCO}_2^- \longrightarrow [6\text{-UCO}_2^-]^{\cdot-}$	7.7	$1.4 \times 10^{10}$	Average of 2 values. p.r.; D.k. at 600 nm in soln. contg. <i>tert</i> -BuOH, as well as p.b.k. at 320 nm ( $\text{e}_{\text{aq}}^-$ adduct). At pH 12 $k \approx 8 \times 10^9$ .	700567
			6.6	$1.5 \times 10^{10}$	p.r.; D.k. at 578 nm.	640044