

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments	Reference
1143	8-Mercaptopropionate ion	$\text{e}_{\text{aq}}^- + \text{HSCH}_2\text{CH}_2\text{CO}_2^- \longrightarrow \cdot\text{CH}_2\text{CH}_2\text{CO}_2^- + \text{HS}^-$	7.4	$5.0 \times 10^9$	p.r.; D.k. at 700 nm in soln. contg. $\sim 0.1 \text{ mol L}^{-1}$ tert-BuOH; $pK_a = 4.3, 10.3$ ; at pH 13.0 $k \approx 2.8 \times 10^8$ .	730090