

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments	Reference
1308	Penicillamine disulfide	$\text{e}_{\text{aq}}^- + (\text{PenS})_2 \longrightarrow (\text{PenS})_2^{\cdot -}$	7.0	7.3×10^9	p.r.; D.k. at 700 nm in soln. contg. <i>tert</i> -BuOH and 8×10^{-3} mol L ⁻¹ phosphate buffer; obs. values are 4.5, 2.3, and 1.4×10^9 for pH = 8, 9, and 10, resp.; net charge changes from 0 to -2 at pH 7 → 10; pK_a = 7.6, 8.8; k_{cor} = 3.7, 1.6, and 0.8×10^9 , resp.	731073
			7.0	1.2×10^{10}	p.r.; D.k. at 700 nm in soln. contg. ~0.1 mol L ⁻¹ <i>tert</i> -BuOH; at pH 12.4 $k = 3.5 \times 10^9$.	720388