

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments	Reference
193	Hydrogen difluoride ion	$\text{e}_{\text{aq}}^- + \text{HF}_2^- \longrightarrow \text{H}^\bullet + \text{F}^-$	5.03	4.3×10^7	X-r.; C.k., soln. contains 9.6×10^{-3} mol L ⁻¹ HF, 1.6×10^{-2} mol L ⁻¹ HF ₂ ⁻ and $0 - 10^{-1}$ mol L ⁻¹ acetone; rel. to $k(\text{e}_{\text{aq}}^- + \text{CH}_3\text{COCH}_3)$, $I = 0.46$.	620021
			5.03	1.8×10^7	phot.; C.k. rel. to H ⁺ , soln. contains 9×10^{-3} mol L ⁻¹ HF, 4.4×10^{-1} mol L ⁻¹ F ⁻ , 1.6×10^{-2} mol L ⁻¹ HF ₂ ⁻ , 1.5×10^{-1} mol L ⁻¹ I ⁻ .	620021