

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments	Reference
158	Titanium(IV) Ion	$\text{H}\cdot + \text{Ti}^{4+} \longrightarrow \text{H}^+ + \text{Ti}^{3+}$		5.6×10^7	Average of 2 values.	
			~ 0	4.0×10^7	γ -r.; C.k.; obs. G(H ₂) in soln. contg. 2 mol L ⁻¹ H ₂ SO ₄ and (5–200) $\times 10^{-1}$ mol L ⁻¹ TiCl ₄ ; rel. to $k(\text{H}\cdot + \text{EtOH})$.	79A341
			~ 1	7.2×10^7	γ -r.; C.k.; obs. G(H ₂); product detn. in [79A341]; rel. to $k(\text{H}\cdot + \text{Ti}^{3+})$.	78G126