

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments	Reference
539	Thionine cation	$\text{H}^+ \text{Th}^+ \longrightarrow \cdot\text{Th}$	1	9.5×10^9	p.r.; P.b.k. in air-free soln. contg. 2×10^{-2} mol L ⁻¹ tert-BuOH; 89.5% semiquinone form, 10.5% ring addn.	81A272