

No.	Compound name	Reaction equation	pH	Rate constant (L mol ⁻¹ s ⁻¹)	Comments
415	Hydrogen sulfide	$\text{e}_{\text{aq}}^- + \text{H}_2\text{S} \longrightarrow \text{H}\cdot + \text{HS}^-$		1.2×10^{10}	Average of 2 values.
			1.1×10^{10}	p.r.; No details given; no reaction in alk. soln.	670273
		5.5-6	1.4×10^{10}	p.r.; D.k. at 550 nm; also produced $\text{H}_2 + \text{S}^{2-}$.	850013