

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments	Reference
507	N-Acetylcysteamine	$\text{e}_{\text{aq}}^- + \text{CH}_3\text{CONHCH}_2\text{CH}_2\text{SH} \longrightarrow \cdot$ $\text{CH}_2\text{CH}_2\text{NHCOCH}_3 + \text{HS}^-$	7.1	$9.1 \times 10^9$	p.r.; D.k. at 700 nm in soln. cong. $\sim 0.1 \text{ mol L}^{-1}$ tert-BuOH; $pK_a \approx 9.5$ .	730090