

No.	Compound name	Reaction equation	pH	Rate constant (L mol <sup>-1</sup> s <sup>-1</sup> )	Comments	Reference
616	2,5-Dimethylthiophene	$\cdot\text{OH} + \text{C}_6\text{H}_8\text{S} \longrightarrow (\text{CH}_3)_2(\text{OH})\text{C}_4\text{H}_2\text{S}$	$\sim 7$	$7.2 \times 10^9$	p.r.; P.b.k. at 300 nm; $k = 5.6 \times 10^9$ in unbuffered soln.	78A026