

乙酸乙酯皂化反应速率常数和活化能

$c(\text{CH}_3\text{COOC}_2\text{H}_5)$ /mol·dm ⁻³	$c(\text{OH}^-)$ /mol·dm ⁻³	$t/^\circ\text{C}$	k /dm ³ ·mol ⁻¹ ·s ⁻¹	k /dm ³ ·mol ⁻¹ ·min ⁻¹	E_a /kJ·mol ⁻¹
0.01	0.02	0	8.65×10^{-3}	0.519	61.03
		10	2.35×10^{-2}	1.41	
		19	8.65×10^{-2}	3.02	
0.021	0.023	25		6.85	
$\lg(k/\text{dm}^3 \cdot \text{mol}^{-1} \cdot \text{min}^{-1}) = -1780/(T/\text{K}) + 0.00754T/\text{K} + 4.53$					