

Table 1: Summary of experimental results: Calculated second-order rate constants (k) and activation parameters for the reactions between acrylamide and *L*-cysteine, glutathione, and captopril

Parameter	<i>L</i>-Cysteine	Glutathione	Captopril
$k/\text{dm}^3 \text{ mol}^{-1} \text{ s}^{-1}$ (293 K)	0.21 ± 0.01		
$k/\text{dm}^3 \text{ mol}^{-1} \text{ s}^{-1}$ (298 K)	0.27 ± 0.02		
$k/\text{dm}^3 \text{ mol}^{-1} \text{ s}^{-1}$ (303 K)	0.34 ± 0.02	0.18 ± 0.02	0.13 ± 0.01
$k/\text{dm}^3 \text{ mol}^{-1} \text{ s}^{-1}$ (310 K)		0.25 ± 0.01	0.163 ± 0.003
$k/\text{dm}^3 \text{ mol}^{-1} \text{ s}^{-1}$ (315 K)		0.31 ± 0.04	0.19 ± 0.01
$\Delta H^\ddagger/\text{kJ mol}^{-1}$	34 ± 5	33 ± 5	22 ± 7
$\Delta S^\ddagger/\text{J K}^{-1} \text{ mol}^{-1}$	-143 ± 2	-152 ± 4	-190 ± 2
$\Delta G^\ddagger(298 \text{ K})/\text{kJ mol}^{-1}$	76 ± 1	78 ± 4	78 ± 3