

316 **APPENDIX**

317 Measured temperatures and EMF (mV) of the electrochemical cell and deviations
318 between the experimental points and Eqn. (9)

T (K)	E_{meas} (mV)	$E_{\text{meas}} - E_{\text{calc}}$
498.4*	0.71	1.43
500.3	0.12	-0.15
500.5	0.47	0.1
501.3	0.78	-0.01
501.6	0.96	0.05
504.2	2.55	0.26
504.3	2.21	-0.11
505.4	2.95	0.04
506.1	2.92	-0.37
509.7	5.02	-0.12
510.2	5.48	0.06
511.4	5.6	-0.42
513.3	6.91	-0.09
515.9	8.45	0.05
516.1	8.28	-0.2
517.7	9.19	-0.14
517.9	10.16	0.72
519.8	10.55	0.14
522.6	12.05	0.21
523.7	12.7	0.26
531.3	16.4	-0.01

541.6	21.71	-0.05
551.7	26.75	-0.23
561.6*	31.66	-0.52
572.0*	36.37	-1.22
587.2*	43.8	-1.66
597.4*	49.43	-1.36
607.9*	55.14	-1.1
617.9*	60.92	-0.53
628.2*	66.44	-0.4
638.6*	72.23	-0.01
648.7*	77.65	0.17
658.9*	83.80	0.98
669.4*	89.98	1.72
679.6*	95.81	2.26
690.3*	101.59	2.43
696.1*	104.90	2.76
700.7*	107.85	3.29
706.1*	110.74	3.36
710.8*	113.76	3.92
716.2*	116.67	4.04
721.0*	119.84	4.74
731.1*	125.8	5.44

(*) points are excluded from calculations but shown in Fig. 2.