

Supplementary Material to:**Product Distribution of Peroxynitrite Decay as a Function of pH, Temperature and Concentration, by Reinhard Kissner and Willem H. Koppenol**

The following Tables present the data from which Figures 1a and 1b were created by inter- and extrapolation. The nitrite and nitrate analyses are averages of three determinations with an error (2s) of 3%.

Decomposition of 50 μM Peroxynitrite

T ($^{\circ}\text{C}$)	pH	NO_2^- (μM)	NO_3^- (μM)	% NO_2^-	% NO_3^-
50	4.4	2.5	46.7	5.0	93.4
50	5.9	3.7	45.9	7.4	91.8
50	5.9	5.9	44.4	11.8	88.8
50	8.6	14.0	36.3	28.0	72.6
50	10.0	17.2	32.4	34.4	64.8
35	5.7	4.2	46.4	8.4	92.8
35	6.4	4.1	45.0	8.2	90.0
35	7.1	4.7	45.4	9.4	90.8
35	8.3	8.7	41.2	17.4	82.4
35	9.6	15.1	35.1	30.2	70.2
25	5.9	3.8	46.0	7.6	92.0
25	6.3	3.7	46.2	7.4	92.4
25	7.0	5.4	44.9	10.8	89.8
25	7.4	7.1	43.3	14.2	86.6
25	9.7	18.0	31.9	36.0	63.8
15	2.2	5.0	44.2	10.0	88.4
15	6.0	5.2	44.9	10.4	89.8
15	6.4	5.0	45.5	10.0	91.0
15	7.0	5.9	43.6	11.8	87.2
15	7.6	5.4	44.6	10.8	89.2
15	10.0	19.7	31.5	39.4	63.0
5	2.2	0.9	49.6	1.8	99.2
5	6.0	5.2	45.1	10.4	90.2
5	6.3	5.6	44.7	11.2	89.4
5	7.0	5.1	44.4	10.2	88.8
5	7.5	4.5	46.0	9.0	92.0
5	8.5	4.4	45.7	8.8	91.4

Decomposition of 2.5 mM Peroxynitrite

T (°C)	pH	NO ₂ ⁻ (mM)	NO ₃ ⁻ (mM)	% NO ₂ ⁻	% NO ₃ ⁻
50	2.2	0.35	2.22	14.0	88.7
50	6.4	0.45	2.10	18.0	83.8
50	6.8	0.56	1.90	22.4	76.1
50	7.2	0.72	1.76	28.8	70.5
50	7.7	1.16	1.36	46.4	54.4
50	10.2	2.18	0.35	87.1	14.0
35	2.2	0.39	2.09	15.6	83.7
35	6.3	0.49	2.05	19.5	82.0
35	6.8	0.61	1.85	24.4	74.0
35	7.1	0.68	1.85	27.2	74.0
35	7.6	0.96	1.51	38.6	60.4
35	9.8	1.89	0.60	75.7	24.0
25	2.2	0.38	2.14	15.3	85.6
25	6.4	0.66	1.85	26.4	74.0
25	6.8	0.64	1.85	25.6	74.0
25	7.1	0.75	1.71	30.0	68.6
25	7.6	0.93	1.60	37.2	63.8
25	9.5	1.87	0.66	74.9	26.4
15	2.2	0.71	1.78	28.4	71.1
15	6.4	0.78	1.74	31.0	69.6
15	6.8	0.75	1.74	30.0	69.5
15	7.1	0.87	1.66	34.8	66.4
15	7.6	0.98	1.50	39.1	60.0
15	9.5	1.89	0.66	75.6	26.4
5	2.2	0.13	2.40	5.3	96.0
5	6.4	0.12	2.37	4.8	94.9
5	6.8	0.21	2.31	8.4	92.4
5	7.2	0.41	2.13	16.4	85.2
5	7.6	0.45	2.01	18.0	80.4
5	10.3	1.94	0.53	77.5	21.2