

## Tables and figure captions

**Table S1.**

Thermodynamic parameters of thermal unfolding of  $0.32 \times 10^{-3}$  mol dm $^{-3}$  cytochrome c in presence of 4-chlorobutan-1-ol at different pH (Scan Rate 0.5 K min $^{-1}$ ).

Alcohol <sup>†</sup>	t <sub>1/2</sub> /°C	ΔH <sub>cal</sub> (kJ.mol $^{-1}$ )	ΔC <sub>P</sub> (kJ.K $^{-1}$ .mol $^{-1}$ )	ΔS (kJ.K $^{-1}$ .mol $^{-1}$ )	β (ΔH <sub>VH</sub> / ΔH <sub>cal</sub> )	σ*
<b>pH=4.0</b>						
0	71.6	360	7.4	0.92	0.97	0.839
0	71.6	352	7.1	1.02	1.02	0.583
0	71.7	369	6.9	1.07	0.98	0.982
0	71.8	362	6.1	1.05	1.04	0.846
<b>Average</b>	<b>71.6</b>	<b>360</b>	<b>6.9</b>	<b>1.05</b>	<b>1.00</b>	
	<b>±0.1</b>	<b>±7.0</b>	<b>±0.6</b>	<b>±0.07</b>	<b>±0.03</b>	
5	70.9	391	5.3	1.00	1.03	0.535
5	70.1	381	4.4	1.11	1.00	0.835
5	70.2	391	5.4	1.14	1.00	0.901
<b>Average</b>	<b>70.4</b>	<b>387</b>	<b>5.0</b>	<b>1.13</b>	<b>1.01</b>	
	<b>±0.4</b>	<b>±6.0</b>	<b>±0.6</b>	<b>±0.07</b>	<b>±0.02</b>	
25 <sup>a</sup>	67.7	412	5.3	1.21	0.98	1.450
25 <sup>a</sup>	67.6	404	4.4	1.19	1.00	1.390
25 <sup>a</sup>	67.5	406	5.4	1.19	1.06	0.845
<b>Average</b>	<b>67.6</b>	<b>407</b>	<b>5.3</b>	<b>1.20</b>	<b>1.01</b>	
	<b>±0.1</b>	<b>±4.0</b>	<b>±0.1</b>	<b>±0.01</b>	<b>±0.04</b>	
50 <sup>a</sup>	64.9	372	6.3	-	-	0.875
50 <sup>a</sup>	64.4	379	8.1	-	-	0.731
50 <sup>a</sup>	64.2	380	7.2	-	-	0.754
<b>Average</b>	<b>64.5</b>	<b>377</b>	<b>7.2</b>			
	<b>±0.4</b>	<b>±4.0</b>	<b>±0.9</b>			
75	60.6	364	5.9	-	-	1.490
75	60.5	367	3.1	-	-	1.460
75	60.1	370	4.5	-	-	0.868
<b>Average</b>	<b>60.4</b>	<b>367</b>	<b>4.5</b>			
	<b>±0.3</b>	<b>±3.0</b>	<b>±1.4</b>			

<b>Alcohol<sup>†</sup></b>	<b>t<sub>1/2</sub>/°C</b>	<b>ΔH<sub>cal</sub> (kJ.mol<sup>-1</sup>)</b>	<b>ΔC<sub>P</sub> (kJ.K<sup>-1</sup>.mol<sup>-1</sup>)</b>	<b>ΔS (kJ.K<sup>-1</sup>.mol<sup>-1</sup>)</b>	<b>σ*</b>
100	55.7	372	6.5	-	0.872
100	55.7	378	9.7	-	1.120
100	55.6	373	8.1	-	0.882
100	55.7	376	6.0	-	0.876
<b>Average</b>	<b>55.7</b>	<b>375</b>	<b>7.6</b>		
	<b>±0.1</b>	<b>±3.0</b>	<b>±1.7</b>		
125	53.2	348	5.8	-	0.885
125	53.1	337	4.8	-	0.842
125	53.2	343	6.0	-	0.776
<b>Average</b>	<b>53.1</b>	<b>343</b>	<b>5.5</b>		
	<b>±0.1</b>	<b>±6.0</b>	<b>±0.6</b>		
150	48.3	265	5.8	-	1.060
150	48.6	259	4.0	-	0.738
150	48.5	263	4.5	-	0.952
<b>Average</b>	<b>48.5</b>	<b>262</b>	<b>4.8</b>		
	<b>±0.2</b>	<b>±3.0</b>	<b>±0.9</b>		
175	42.9	206	3.6	-	0.663
175	43.4	203	3.9	-	0.724
175	43.0	215	3.1	-	0.697
<b>Average</b>	<b>43.1</b>	<b>208</b>	<b>3.5</b>		
	<b>±0.3</b>	<b>±6.0</b>	<b>±0.4</b>		
200	35.3	134	3.6	-	0.449
200	36.0	143	4.0	-	0.398
200	35.0	137	3.8	-	0.441
<b>Average</b>	<b>35.4</b>	<b>138</b>	<b>3.8</b>		
	<b>±0.5</b>	<b>±5.0</b>	<b>±0.20</b>		
<b>pH=6.0</b>					
25	71.7	359	7.6	-	1.130
25	71.2	360	4.5	-	0.977
25	71.4	367	6.1	-	0.956
<b>Average</b>	<b>71.4</b>	<b>362</b>	<b>6.1</b>		
	<b>±0.3</b>	<b>±4.0</b>	<b>±1.6</b>		

<b>Alcohol<sup>†</sup></b>	<b>t<sub>1/2</sub>/°C</b>	<b>ΔH<sub>cal</sub> (kJ.mol<sup>-1</sup>)</b>	<b>ΔC<sub>P</sub> (kJ.K<sup>-1</sup>.mol<sup>-1</sup>)</b>	<b>ΔS (kJ.K<sup>-1</sup>.mol<sup>-1</sup>)</b>	<b>σ*</b>
50	62.2	331	4.7	-	1.680
50	61.8	335	4.9	-	1.430
50	61.8	331	5.7	-	1.470
<b>Average</b>	<b>61.9</b>	<b>332</b>	<b>5.1</b>		
	<b>±0.3</b>	<b>±0.2</b>	<b>±0.5</b>		
75	54.5	225	6.5	-	0.665
75	54.9	232	7.1	-	1.220
75	54.8	220	4.7	-	0.949
<b>Average</b>	<b>54.7</b>	<b>225</b>	<b>6.1</b>		
	<b>±0.2</b>	<b>±6.0</b>	<b>±1.2</b>		
100	48.6	204	4.2	-	0.647
100	48.6	196	5.1	-	0.757
100	48.8	199	6.0	-	0.704
<b>Average</b>	<b>48.7</b>	<b>200</b>	<b>5.1</b>		
	<b>±0.1</b>	<b>±4.0</b>	<b>±0.9</b>		
125	41.4	112	5.7	-	0.410
125	41.0	109	4.6	-	0.256
125	41.8	115	5.2	-	0.463
<b>Average</b>	<b>41.4</b>	<b>112</b>	<b>5.2</b>		
	<b>±0.4</b>	<b>±3.0</b>	<b>±0.6</b>		
<b>pH=7.0</b>					
25	73.9	356	1.8	-	2.970
25	73.8	348	1.6	-	3.030
25	73.7	354	3.8	-	2.280
25	73.5	339	1.8	-	2.390
<b>Average</b>	<b>±0.2</b>	<b>349</b>	<b>2.3</b>		
		<b>±8.0</b>	<b>±1.0</b>		
50	64.8	336	8.9	-	0.886
50	64.5	334	4.9	-	0.999
50	64.7	353	7.7	-	0.771
<b>Average</b>	<b>64.7</b>	<b>341</b>	<b>7.2</b>		
	<b>±0.2</b>	<b>±10.0</b>	<b>±2.1</b>		

Alcohol <sup>†</sup>	t <sub>1/2</sub> /°C	ΔH <sub>cal</sub> (kJ.mol <sup>-1</sup> )	ΔC <sub>P</sub> (kJ.K <sup>-1</sup> .mol <sup>-1</sup> )	ΔS (kJ.K <sup>-1</sup> .mol <sup>-1</sup> )	σ*
75	58.6	314	4.6	-	1.510
75	58.0	311	4.8	-	1.530
75	58.4	305	5.4	-	1.460
<b>Average</b>	<b>58.3</b>	<b>310</b>	<b>4.9</b>		
	<b>±0.3</b>	<b>±5.0</b>	<b>±0.40</b>		
100	52.4	256	5.2	-	0.986
100	52.1	244	4.4	-	0.937
100	51.9	245	1.9	-	0.950
<b>Average</b>	<b>52.1</b>	<b>248</b>	<b>3.8</b>		
	<b>±0.3</b>	<b>±7.0</b>	<b>±1.7</b>		
125	43.1	181	2.4	-	0.479
125	43.6	177	3.2	-	0.457
125	43.4	177	3.9	-	0.387
<b>Average</b>	<b>43.4</b>	<b>178</b>	<b>3.2</b>		
	<b>±0.3</b>	<b>±2.0</b>	<b>±0.8</b>		
150	35.9	156	4.0	-	0.379
150	35.5	144	3.8	-	0.347
150	36.0	152	2.3	-	0.383
<b>Average</b>	<b>35.8</b>	<b>151</b>	<b>3.4</b>		
	<b>±0.3</b>	<b>±0.6</b>	<b>±0.9</b>		

a σ is standard deviation of the fit in kJ.K<sup>-1</sup>.mol<sup>-1</sup>

<sup>†</sup> The concentration of alcohol and protein is in 10<sup>-3</sup> mol dm<sup>-3</sup>

**Table S2.**

**Thermodynamic parameters of unfolding of  $0.32 \times 10^{-3}$  mol dm $^{-3}$  cytochrome c in presence of 4-chlorobutan-1-ol at different pH (Scan rate dependence)**

Scan Rate (K min $^{-1}$ )	Alcohol $^{\dagger}$	t <sub>1/2</sub> /°C	ΔH <sub>cal</sub> (kJ.mol $^{-1}$ )	ΔC <sub>P</sub> (kJ.K $^{-1}$ .mol $^{-1}$ )	σ*
<b>pH=4.0</b>					
0.1	100	46.9	252	5.4	1.47
0.1	100	46.3	249	3.9	1.54
0.1	100	46.3	248	3.9	1.11
<b>Average</b>	<b>100</b>	<b>46.5</b>	<b>250</b>	<b>4.4</b>	
		<b>100</b>	<b>±0.3</b>	<b>±2.0</b>	<b>±0.9</b>
0.3	100	53.6	318	3.6	0.688
0.3	100	53.9	330	5.1	0.455
0.3	100	54.0	318	3.7	0.681
<b>Average</b>	<b>100</b>	<b>53.8</b>	<b>322</b>	<b>4.1</b>	
		<b>100</b>	<b>±0.2</b>	<b>±7.0</b>	<b>±0.8</b>
0.5	100	55.7	372	6.5	0.872
0.5	100	55.7	378	7.0	1.120
0.5	100	55.6	373	8.1	0.882
0.5	100	55.7	376	6.0	0.876
<b>Average</b>	<b>100</b>	<b>55.7</b>	<b>375</b>	<b>6.9</b>	
		<b>100</b>	<b>±0.1</b>	<b>±3.0</b>	<b>±0.9</b>
0.7	100	58.8	330	7.4	0.561
0.7	100	58.7	329	7.2	0.532
0.7	100	58.5	327	7.1	0.520
<b>Average</b>	<b>100</b>	<b>58.7</b>	<b>329</b>	<b>7.2</b>	
		<b>100</b>	<b>±0.2</b>	<b>±2.0</b>	<b>±0.2</b>
1.0	100	61.0	303	6.4	0.866
1.0	100	60.8	292	6.6	0.923
1.0	100	61.7	305	4.0	0.332
<b>Average</b>	<b>100</b>	<b>61.2</b>	<b>300</b>	<b>5.7</b>	
		<b>100</b>	<b>±0.5</b>	<b>±7.0</b>	<b>±1.4</b>
<b>pH=6.0</b>					
0.1	75	44.4	168	8.1	0.700
0.1	75	44.7	181	6.4	0.884
0.1	75	44.8	178	7.3	0.658
<b>Average</b>	<b>75</b>	<b>44.6</b>	<b>175</b>	<b>7.3</b>	
		<b>75</b>	<b>±0.1</b>	<b>±7.0</b>	<b>±0.9</b>

<b>Scan Rate (K min<sup>-1</sup>)</b>	<b>Alcohol<sup>†</sup></b>	<b>t<sub>1/2</sub>/°C</b>	<b>ΔH<sub>cal</sub> (kJ.mol<sup>-1</sup>)</b>	<b>ΔC<sub>P</sub> (kJ.K<sup>-1</sup>.mol<sup>-1</sup>)</b>	<b>σ*</b>
0.3	75	51.4	202	3.7	0.859
0.3	75	51.8	204	4.1	0.823
0.3	75	52.0	200	5.9	1.090
<b>Average</b>	<b>75</b>	<b>51.7</b>	<b>202</b>	<b>4.6</b>	
		<b>±0.3</b>	<b>±2.0</b>	<b>±1.2</b>	
0.5	75	54.5	225	6.5	0.665
0.5	75	54.9	230	7.1	1.220
0.5	75	54.8	220	4.7	0.949
<b>Average</b>	<b>75</b>	<b>54.7</b>	<b>225</b>	<b>6.1</b>	
		<b>±0.2</b>	<b>±5.0</b>	<b>±1.2</b>	
0.7	75	57.1	246	3.8	0.733
0.7	75	56.8	250	3.2	0.753
0.7	75	57.1	254	4.9	0.547
<b>Average</b>	<b>75</b>	<b>57.0</b>	<b>250</b>	<b>4.0</b>	
		<b>±0.2</b>	<b>±4.0</b>	<b>±0.9</b>	
1.0	75	61.1	277	4.2	0.764
1.0	75	61.5	275	4.8	1.200
1.0	75	61.2	275	4.3	1.080
1.0	75	61.2	285	3.2	0.963
<b>Average</b>	<b>75</b>	<b>61.3</b>	<b>278</b>	<b>4.1</b>	
		<b>±0.2</b>	<b>±5.0</b>	<b>±0.7</b>	
<b>pH=7.0</b>					
0.1	100	43.2	170	4.3	0.571
0.1	100	42.8	180	4.1	0.702
0.1	100	42.8	181	3.9	0.792
<b>Average</b>	<b>100</b>	<b>42.9</b>	<b>177</b>	<b>4.1</b>	
		<b>±0.2</b>	<b>±6.0</b>	<b>±0.2</b>	
0.3	100	49.0	218	1.3	0.569
0.3	100	49.4	233	3.2	0.865
0.3	100	49.4	234	2.5	0.742
<b>Average</b>	<b>100</b>	<b>49.3</b>	<b>228</b>	<b>2.3</b>	
		<b>±0.2</b>	<b>±9.0</b>	<b>±1.0</b>	
0.5	100	52.4	256	5.2	0.986
0.5	100	52.1	244	4.4	0.937
0.5	100	51.9	245	4.8	0.950

**Average**      **100**      **52.1**      **248**      **4.8**  
                        **±0.3**      **±7.0**      **±0.4**

<b>Scan Rate</b> <b>(K min<sup>-1</sup>)</b>	<b>Alcohol<sup>†</sup></b>	<b>t<sub>1/2</sub>/°C</b>	<b>ΔH<sub>cal</sub></b> <b>(kJ.mol<sup>-1</sup>)</b>	<b>ΔC<sub>p</sub></b> <b>(kJ.K<sup>-1</sup>.mol<sup>-1</sup>)</b>	<b>σ*</b>
0.7	100	54.7	276	1.3	0.953
0.7	100	54.8	273	1.4	0.959
0.7	100	54.6	270	0.4	0.993
<b>Average</b>	<b>100</b>	<b>54.7</b>	<b>273</b>	<b>1.0</b>	
		<b>±0.1</b>	<b>±3.0</b>	<b>±0.6</b>	
1.0	100	56.7	233	2.1	0.893
1.0	100	57.1	239	0.6	0.976
1.0	100	56.7	234	0.0	1.010
1.0	100	57.4	229	2.2	1.090
<b>Average</b>	<b>100</b>	<b>57.0</b>	<b>234</b>	<b>1.2</b>	
		<b>±0.3</b>	<b>±4.0</b>	<b>±1.1</b>	

**Table S3.**  
**Thermodynamic parameters of thermal unfolding of cytochrome c in presence of 4-chlorobutan-1-ol at different pH (Scan Rate 0.5 K min<sup>-1</sup>)**

Protein <sup>†</sup>	Alcohol <sup>†</sup>	t <sub>1/2</sub> /°C	ΔH <sub>cal</sub> (kJ.mol <sup>-1</sup> )	ΔC <sub>P</sub> (kJ.K <sup>-1</sup> .mol <sup>-1</sup> )	σ*
<b>pH=4.0</b>					
0.16	100	54.1	352	6.9	0.664
0.16	100	53.6	343	5.2	0.601
0.16	100	53.8	341	7.3	0.689
<b>Average</b>	<b>100</b>	<b>53.8</b>	<b>345</b>	<b>6.5</b>	
		<b>±0.3</b>	<b>±6.0</b>	<b>±1.2</b>	<b>±0.02</b>
0.24	100	55.1	355	5.8	0.700
0.24	100	55.0	356	3.6	0.754
0.24	100	55.0	350	5.5	0.687
<b>Average</b>	<b>100</b>	<b>55.0</b>	<b>354</b>	<b>4.9</b>	
		<b>±0.1</b>	<b>±3.0</b>	<b>1.2</b>	
0.32	100	55.7	372	6.5	0.872
0.32	100	55.7	378	9.7	1.120
0.32	100	55.6	373	8.1	0.882
0.32	100	55.7	376	6.0	0.876
<b>Average</b>	<b>100</b>	<b>55.7</b>	<b>375</b>	<b>7.6</b>	
		<b>±0.1</b>	<b>±3.0</b>	<b>±1.7</b>	
0.40	100	56.6	351	4.0	0.809
0.40	100	56.8	356	5.8	0.623
0.40	100	56.8	344	4.2	0.834
<b>Average</b>	<b>100</b>	<b>56.7</b>	<b>350</b>	<b>4.7</b>	
		<b>±0.1</b>	<b>±6.0</b>	<b>±1.0</b>	
0.48	100	57.6	330	6.7	0.657
0.48	100	58.1	334	4.5	0.707
0.48	100	57.4	327	4.6	0.608
<b>Average</b>	<b>100</b>	<b>57.7</b>	<b>330</b>	<b>5.3</b>	
		<b>±0.4</b>	<b>±4.0</b>	<b>±1.2</b>	
0.57	100	59.1	321	5.4	0.964
0.57	100	59.2	331	5.2	0.737
0.57	100	58.7	328	5.6	0.775
<b>Average</b>	<b>100</b>	<b>59.0</b>	<b>327</b>	<b>5.4</b>	

Protein <sup>†</sup>	Alcohol <sup>†</sup>	t <sub>1/2</sub> /°C	ΔH <sub>cal</sub> (kJ.mol <sup>-1</sup> )	ΔC <sub>P</sub> (kJ.K <sup>-1</sup> .mol <sup>-1</sup> )	σ*
<b>pH=6.0</b>					
0.08	75	47.8	178	5.9	0.591
0.08	75	47.8	182	3.9	0.829
0.08	75	47.8	172	4.0	0.662
<b>Average</b>	<b>75</b>	<b>47.8</b>	<b>177</b>	<b>4.6</b>	
		<b>±0.0</b>	<b>±5.0</b>	<b>±1.1</b>	
0.16	75	50.0	194	4.5	0.833
0.16	75	50.3	197	4.6	0.929
0.16	75	50.5	192	3.4	0.920
<b>Average</b>	<b>75</b>	<b>50.3</b>	<b>194</b>	<b>4.2</b>	
		<b>±0.3</b>	<b>±3.0</b>	<b>±0.7</b>	
0.24	75	52.7	205	3.9	0.994
0.24	75	52.4	208	4.3	0.779
0.24	75	52.8	213	4.1	0.941
<b>Average</b>	<b>75</b>	<b>52.6</b>	<b>209</b>	<b>4.1</b>	
		<b>±0.2</b>	<b>±4.0</b>	<b>±0.2</b>	
0.32	75	54.5	225	6.5	0.665
0.32	75	54.9	230	7.1	1.220
0.32	75	54.8	220	4.7	0.949
<b>Average</b>	<b>75</b>	<b>54.7</b>	<b>225</b>	<b>6.1</b>	
		<b>±0.2</b>	<b>±5.0</b>	<b>±1.2</b>	
0.40	75	57.0	237	5.2	0.733
0.40	75	56.1	235	6.0	0.753
0.40	75	56.9	236	5.2	0.547
<b>Average</b>	<b>75</b>	<b>56.7</b>	<b>236</b>	<b>5.5</b>	
		<b>±0.5</b>	<b>±1.0</b>	<b>±0.5</b>	
0.48	75	59.0	252	5.0	1.560
0.48	75	58.2	251	5.1	1.560
0.48	75	58.2	241	5.1	1.420
<b>Average</b>	<b>75</b>	<b>58.5</b>	<b>248</b>	<b>5.1</b>	
		<b>±0.5</b>	<b>±6.0</b>	<b>±0.1</b>	

Protein <sup>†</sup>	Alcohol <sup>†</sup>	t <sub>1/2</sub> /°C	ΔH <sub>cal</sub> (kJ.mol <sup>-1</sup> )	ΔC <sub>P</sub> (kJ.K <sup>-1</sup> .mol <sup>-1</sup> )	σ*
0.57	75	59.6	261	4.6	1.390
0.57	75	59.7	267	4.1	1.350
0.57	75	60.1	270	6.1	1.390
<b>Average</b>		<b>59.8</b>	<b>266</b>	<b>4.9</b>	
		<b>±0.3</b>	<b>±5</b>	<b>±1.0</b>	

**Figure Legends (in supplementary information)**

**Figure S1.** A plot of  $\Delta t_{1/2}$  versus alcohol concentration for the thermal denaturation of  $0.32 \times 10^{-3}$  mol dm<sup>-3</sup> cytochrome c in presence of varying concentrations of 4-chlorobutan-1-ol, pH 4.0.

**Figure S2.** A plot of  $\Delta H_{\text{cal}}$  versus alcohol concentration for the thermal denaturation of  $0.32 \times 10^{-3}$  mol dm<sup>-3</sup> cytochrome c in presence of varying concentrations of 4-chlorobutan-1-ol, pH 4.0.

**Figure S3.** A plot of  $t_{1/2}$  versus protein concentration for thermal denaturation of cytochrome c in presence of  $100 \times 10^{-3}$  mol dm<sup>-3</sup> 4-chlorobutan-1-ol, pH 4.0.

**Figure S4.** A plot of  $\Delta H_{\text{cal}}$  versus protein concentration for thermal denaturation of cytochrome c in presence of  $100 \times 10^{-3}$  mol dm<sup>-3</sup> 4-chlorobutan-1-ol at pH 4.0.

**Figure S5.** Fluorescence emission spectra of  $16 \times 10^{-6}$  mol dm<sup>-3</sup> cytochrome c at pH 4.0 in (B) buffer; and in the presence of varying concentrations of 4-chlorobutan-1-ol: (C) 25 ; (D) 50 ; (E) 50 at 69.0 °C; (F) 50 at 83.0 °C; (G) 100 ; (H) 100 at 70.0 °C; (I) 200 ; and (J)  $225 \times 10^{-3}$  mol dm<sup>-3</sup>.

**Figure S6.** Stern-Volmer plot for quenching of the intrinsic fluorescence of  $24 \times 10^{-6}$  mol dm<sup>-3</sup> cytochrome c in presence of (■)  $50 \times 10^{-3}$  mol dm<sup>-3</sup> 4-chlorobutan-1-ol at 69.0 °C; (●)  $50 \times 10^{-3}$  mol dm<sup>-3</sup> 4-chlorobutan-1-ol at 83.0 °C; and (▲)  $200 \times 10^{-3}$  mol dm<sup>-3</sup> 4-chlorobutan-1-ol by varying concentrations of acrylamide ( $0 - 0.45$  mol dm<sup>-3</sup>) at pH 4.0.

**Figure S7.** A plot of  $\ln(v/T_m^2)$  versus  $1/T_m$  for thermal denaturation of  $0.32 \times 10^{-3}$  mol dm<sup>-3</sup> cytochrome c in presence of  $75 \times 10^{-3}$  mol dm<sup>-3</sup> 4-chlorobutan-1-ol at pH 6.0.

**Figure S8.** Near-UV CD spectra of  $24 \times 10^{-6}$  mol dm $^{-3}$  cytochrome c at pH 6.0 in (A) buffer; and in presence of varying concentrations of 4-chlorobutan-1-ol: (D) 50 and (F)  $100 \times 10^{-3}$  mol dm $^{-3}$ .

**Figure S9.** Far-UV CD spectra of  $8 \times 10^{-3}$  mol dm $^{-3}$  cytochrome c at pH 6.0 in (A) buffer; and in the presence of varying concentrations of 4-chlorobutan-1-ol: (D) 50 ; and (F)  $100 \times 10^{-3}$  mol dm $^{-3}$ .

**Figure S10.** Near-UV CD spectra of  $24 \times 10^{-6}$  mol dm $^{-3}$  cytochrome c at pH 7.0 in (A) buffer; and in the presence of varying concentrations of 4-chlorobutan-1-ol: (B) 50; and (F)  $125 \times 10^{-3}$  mol dm $^{-3}$ .

**Figure S11.** Far-UV CD spectra of  $8 \times 10^{-6}$  mol dm $^{-3}$  cytochrome c at pH 7.0 in (A) buffer; and in the presence of varying concentrations of 4-chlorobutan-1-ol: (D) 50 ; and (F)  $125 \times 10^{-3}$  mol dm $^{-3}$ .

**Figure S12.** Fluorescence emission spectra of  $16 \times 10^{-6}$  mol dm $^{-3}$  cytochrome c at pH 7.0 in (B) buffer; and in the presence of varying concentrations of 4-chlorobutan-1-ol: (C) 25 ; (D) 100 ; (E) 100 at 70.0 °C; (F) 150 ; and (G)  $175 \times 10^{-3}$  mol dm $^{-3}$ .

**Figure S13.** Fluorescence emmision spectra obtained from ANS ( $11.6 \times 10^{-5}$  mol dm $^{-3}$ ) binding studies of  $16 \times 10^{-6}$  mol dm $^{-3}$  cytochrome c at pH 7.0 in (B) buffer; and in the presence of varying concentrations of 4-chlorobutan-1-ol: (C) 25 ; (D) 100 ; (E) 100 at 70.0 °C; (F) 150 ; and (G)  $175 \times 10^{-3}$  mol dm $^{-3}$ .

**Figure S14.** Fluorescence emmision spectra obtained from energy transfer between  $16 \times 10^{-6}$  mol dm $^{-3}$  cytochrome c and ANS ( $11.6 \times 10^{-5}$  mol dm $^{-3}$ ) at pH 7.0 in (B) buffer; and in the presence of varying concentrations of 4-chlorobutan-1-ol: (C) 25 ; (D) 100 ; (E) 100 at 70.0 °C; (F) 150 ; and (G)  $175 \times 10^{-3}$  mol dm $^{-3}$ .

**Figure S15.** Stern-Volmer plot for quenching of the intrinsic fluorescence of  $24 \times 10^{-6}$  mol dm<sup>-3</sup> cytochrome c in presence of (■)  $150 \times 10^{-3}$  mol dm<sup>-3</sup> 4-chlorobutan-1-ol; (●)  $100 \times 10^{-3}$  mol dm<sup>-3</sup> 4-chlorobutan-1-ol at 70.0 °C by varying concentrations of acrylamide (0 – 0.45 mol dm<sup>-3</sup>) at pH 7.0.

Electronic supplementary information for PCCP  
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