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Supplementary Table 1. Values of the reduced chemical shift anisotropies ($S^2(\sigma_{//} - \sigma_{\perp})P_2(\cos\theta)$) in ppm, calculated using isotropic and anisotropic rotational diffusion parameters.

res#	csa_i[a] 36 MHz 132 ms	csa_a[a] 36 MHz 132 ms	csa_i[a] 61 MHz 46.6 ms	csa_a[a] 61 MHz 46.6 ms	csa_i[a] 61 MHz 68 ms	csa_a[a] 61 MHz 68 ms	csa_i[a] 61 MHz 132 ms	csa_a[a] 61 MHz 132 ms	S^2
2	131.1	128.8	126.1	123.8	126.6	124.3	127.4	125.1	0.838 [b]
3	117.1	118.3	121.6	122.9	119.5	120.8	119.7	120.9	0.884
4	115.1	116.8	117.9	119.7	117.6	119.3	117.4	119.2	0.898
5	116.8	118.9	115.6	117.7	114.8	116.9	115.0	117.1	0.830
6	131.4	133.1	126.7	128.5	126.9	128.7	126.9	128.6	0.860
7	118.8	120.4	118.5	120.2	118.2	119.9	118.7	120.4	0.860
8	102.2	103.5	102.1	103.4	101.7	103.0	101.7	103.0	0.772
9	95.6	95.8	97.1	97.3	95.5	95.7	94.8	95.0	0.731
10	100.1	102.0	105.9	107.8	105.3	107.2	103.5	105.4	0.736
11	111.8	110.7	110.4	109.3	109.6	108.5	110.7	109.6	0.709
12	101.6	103.2	105.9	107.6	103.9	105.5	103.6	105.3	0.756
13	118.9	120.5	118.7	120.4	118.3	120.0	116.9	118.6	0.845
14	115.6	117.5	117.5	119.5	115.0	116.9	114.9	116.8	0.830
15	124.2	125.8	119.8	121.3	120.9	122.4	119.7	121.2	0.823
16	115.4	115.4	114.7	114.7	113.9	113.9	114.2	114.2	0.777
17	121.1	121.9	122.7	123.5	122.4	123.2	120.3	121.1	0.877
18	121.0	119.3	117.6	115.9	115.9	114.2	116.4	114.7	0.849
20	119.7	119.5	121.0	120.8	118.9	118.7	118.2	118.1	0.842
21	137.5	138.8	136.4	137.8	136.7	138.0	136.8	138.1	0.900
22	115.2	117.3	115.8	117.9	114.3	116.4	114.2	116.2	0.852
23	136.5	138.8	135.0	137.3	130.1	132.3	131.7	133.9	0.905
25	125.3	125.4	125.6	125.8	124.8	124.9	125.2	125.3	0.886
26	127.2	129.1	127.3	129.2	126.6	128.6	126.1	128.0	0.858
27	128.3	130.3	127.3	129.3	126.2	128.1	126.9	128.9	0.916

28	133.6	133.6	131.6	131.6	131.4	131.4	130.4	130.4	0.897
29	122.3	123.3	121.6	122.6	120.1	121.1	121.5	122.5	0.890
30	124.0	126.2	122.9	125.1	125.3	127.5	122.4	124.5	0.886
31	119.0	120.1	117.4	118.4	117.6	118.6	116.2	117.2	0.798
32	122.4	123.0	122.0	122.5	121.2	121.7	121.9	122.5	0.895
33	113.0	114.9	115.0	117.0	113.5	115.4	112.7	114.6	0.855
34	107.9	109.8	110.9	112.9	109.5	111.4	106.0	107.9	0.851
35	126.4	123.0	126.5	123.1	125.4	122.0	125.5	122.1	0.854
36	119.7	117.1	125.0	122.2	124.1	121.3	123.2	120.5	0.784
39	110.8	112.5	113.4	115.2	112.6	114.4	112.1	113.9	0.852
40	113.3	114.0	118.0	118.7	118.3	119.0	117.0	117.7	0.865
41	120.1	122.0	116.9	118.7	117.5	119.3	116.7	118.5	0.852
42	113.3	115.0	114.4	116.2	113.4	115.1	113.4	115.1	0.831
43	122.2	124.4	118.1	120.2	115.5	117.6	117.1	119.2	0.828
44	117.0	119.1	116.6	118.7	116.8	118.9	115.1	117.1	0.837
45	134.7	136.6	132.7	134.5	131.2	133.0	130.4	132.2	0.872
46	124.3	126.6	126.1	128.4	125.8	128.1	125.3	127.6	0.840
47	100.5	102.3	100.6	102.4	99.0	100.7	98.5	100.2	0.821
48	131.3	130.6	129.3	128.6	129.1	128.4	129.6	128.9	0.843
49	110.5	111.9	109.2	110.6	108.3	109.6	108.1	109.4	0.752
50	129.2	130.8	124.9	126.4	124.1	125.5	124.9	126.3	0.836
51	118.7	115.7	118.8	115.7	115.8	112.7	116.3	113.3	0.796
52	112.0	108.3	112.4	108.5	113.0	109.1	111.7	107.8	0.788
54	124.8	121.9	127.0	124.0	128.0	124.9	126.8	123.8	0.855
55	115.0	115.9	114.4	115.3	115.0	115.9	112.3	113.2	0.868
56	124.4	126.5	125.5	127.6	125.7	127.7	125.5	127.6	0.901
57	114.5	116.5	117.3	119.4	116.9	119.1	117.6	119.7	0.871
58	126.1	127.5	126.7	128.1	125.7	127.1	126.0	127.4	0.892
59	111.2	113.2	111.6	113.6	111.3	113.2	108.3	110.2	0.866
60	126.5	128.3	128.8	130.7	126.6	128.4	125.0	126.8	0.883

61	119.1	121.2	117.6	119.7	117.9	120.0	116.2	118.3	0.858
62	103.3	103.9	101.5	102.0	101.2	101.8	101.0	101.5	0.702
63	114.6	111.3	114.3	110.9	114.8	111.4	114.4	111.1	0.817
64	115.1	117.1	119.2	121.3	118.1	120.2	115.8	117.8	0.878
65	128.3	129.0	126.9	127.6	124.8	125.4	124.7	125.3	0.870
66	118.7	120.7	114.1	116.1	113.8	115.8	114.1	116.1	0.841
67	127.0	129.1	119.8	121.9	118.2	120.2	118.4	120.4	0.842
68	112.7	114.7	113.7	115.6	112.2	114.1	112.1	114.0	0.872
69	96.3	98.1	124.3	126.6	90.2	91.9	108.0	109.9	0.847
70	129.9	130.9	127.6	128.6	128.3	129.3	129.0	129.9	0.909
71	113.2	114.5	111.9	113.2	110.4	111.8	109.9	111.2	0.795
73	70.8	71.8	67.5	68.5	65.6	66.5	66.1	67.1	0.565
74	47.2	47.7	47.9	48.3	48.1	48.6	47.4	47.9	0.365
75	24.1	24.4	25.2	25.4	25.5	25.8	24.6	24.8	0.221
76	15.1	15.2	15.9	16.1	15.8	15.9	15.3	15.5	0.154

[a] csa_i and csa_a refer to the CSA^{red} values calculated from I_a/I_B using isotropic rotational diffusion (τ_c = 4.1 ns) and axially symmetric rotational diffusion ($D_{//} / D_{\perp}$ = 1.17; 1/(2 Tr**D**) = 4.1 ns), respectively.

[b] Order parameters from reference 27.