

```

1  Supplementary Information
2  MARTINI Force Field Parameters for Compound X
3  [moleculetype]
4  ; molname      nrexcl
5    CPX          2
6
7  [atoms]
8  ; id  type  resnr  residue  atom  cgnr  charge
9      1   P5    1    CPX     P01    1     0
10     2   Na    1    CPX     N01    2     0
11     3   SP1    1    CPX     S01    3     0
12     4   SNa    1    CPX     S02    4     0
13     5   Nd     1    CPX     N02    5     0
14     6   SP2    1    CPX     S03    6     0
15     7   SP1    1    CPX     S04    7     0
16     8   SP1    1    CPX     S05    8     0
17     9   SN0    1    CPX     S06    9     0
18    10   SN0    1    CPX     S07   10     0
19
20  [bonds]
21  ; i j  funct  length  force.c.
22    1 2    1     0.382  15000
23    1 5    1     0.304  15000
24    5 6    1     0.280  15000
25
26  [constraints]
27  ; i j  funct  length
28    2 3    1     0.301
29    3 4    1     0.125
30    2 4    1     0.314
31    6 7    1     0.122
32    7 8    1     0.210
33    6 8    1     0.204
34    9 10   1     0.165
35    8 9    1     0.245
36
37  [angles]
38  ; i j k    funct  angle  force.c.

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39	3 2 1	2	180	125.0
40	4 2 1	2	120	150.0
41	2 1 5	2	95	125.0
42	1 5 6	2	150	60.0
43	5 6 8	2	130	100.0
44	5 6 7	2	160	125.0
45	6 8 9	2	150	250.0
46	7 8 9	2	180	250.0
47	8 9 10	2	180	1000.0
48				
49	[dihedrals]			
50	; i j k l funct angle force.c.			