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Table S1: Reference potential non-bonded parameters for water, NALMA, Glycerol and DMSO

		ϵ/k_B (kJ/mol)	$\sigma(\text{\AA})$	m (a.u.)	q/e
Water	O _w	0.65	3.166	16	-0.8500
	H _w	0.00	0.000	2	0.4250
NALMA	C _m	0.20	3.700	12	-0.3017
	H _m	0.05	1.700	2	0.1308
	C _o	0.20	3.700	12	0.5972
	O	0.20	3.166	16	-0.5679
	N	0.20	3.200	14	-0.4157
	H _a	0.05	1.700	2	0.2719
	C _a	0.65	3.700	12	-0.5180
Glycerol	C _g	0.28	3.50	12	0.2150
	H _g	0.13	2.50	2	0.0300
	O _g	0.71	3.12	16	-0.6830
	H _o	0.00	0.00	2	0.4180
DMSO	S _d	0.99	3.40	32	0.5400
	C _d	1.23	3.20	12	0.0000
	H _d	0.00	0.00	2	0.0000
	O _d	0.30	2.80	16	-0.5400

Table S2: Reference potential geometry parameters for water, NALMA, Glycerol and DMSO

Water	<i>Bond (Å)</i>	OW	HW		0.976
	<i>Angle</i>	HW	OW	HW	104.50
NALMA	<i>Bond (Å)</i>	N	Ha		1.01
		Cm	Hm		1.09
		Cm	Cm		1.53
		Cm	Co		1.53
		Ca	Co		1.53
		Ca	Cm		1.53
		Ca	N		1.45
		Co	N		1.34
		Cm	N		1.45
		Co	O		1.23
		Hm	Ca		1.09
	<i>Angle</i>	Hm	Cm	Hm	109.47
		Hm	Cm	Co	109.47
		Cm	Co	O	120.40
		Cm	Co	N	116.60
		O	Co	N	122.90
		Co	N	Ha	120.00
		Co	N	Ca	121.90
		Ha	N	Ca	118.04
		N	Ca	Hm	109.47
		N	Ca	Cm	109.47
		N	Ca	Co	110.10
		Hm	Ca	Cm	109.47
		Hm	Ca	Co	109.47
		Cm	Ca	Co	111.10
		Ca	Cm	Cm	109.47
		Ca	Cm	Hm	109.47
		Cm	Cm	Hm	109.47
		Cm	Cm	Cm	109.47
		Ca	Co	O	120.40
		Ca	Co	N	116.60
		Co	N	Cm	121.90
		Ha	N	Cm	118.04
		N	Cm	Hm	109.47
Glycerol	<i>Bond (Å)</i>	Og	Cg		1.41
		Cg	Cg		1.53
		Cg	Hg		1.09
		Og	Ho		0.96
	<i>Angle</i>	Cg	Og	Ho	108.50
		Cg	Cg	Og	109.50
		Cg	Cg	Cg	109.50
		Og	Cg	Hg	109.50

Supplementary Material (ESI) for *PCCP*
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		Cg	Cg	Hg	109.50
		Hg	Cg	Hg	109.50
DMSO	<i>Bond (Å)</i>	Od	Sd		1.53
		Sd	Cd		1.74
		Cd	Hd		1.08
	<i>Angle</i>	Od	Sd	Cd	114.00
		Sd	Cd	Hd	111.00
		Cd	Sd	Cd	99.00
		Hd	Cd	Hd	109.50