

Supplementary Materials for:

Design of [EtOHMIM][PF₆]-incorporated UiO-66 for Adsorptive Removal of Methylene Blue: Deep Eutectic Solvent-assisted MOF Synthesis and Computational Ionic Liquid Screening

Mengjia Sheng, Xiang Zhang*, Zhen Song, Hongye Cheng, Zhiwen Qi*
State Key Laboratory of Chemical Engineering, School of Chemical Engineering, East China University of Science and Technology, 130 Meilong Road, Shanghai 200237, China

*Corresponding authors: zhangxiang@ecust.edu.cn (Xiang Zhang)
zwqi@ecust.edu.cn (Zhiwen Qi)

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Fig. S1. Schematic of the synthesis process of UiO-66-DES



Fig. S2. The heatmap of $\ln\gamma^\infty$

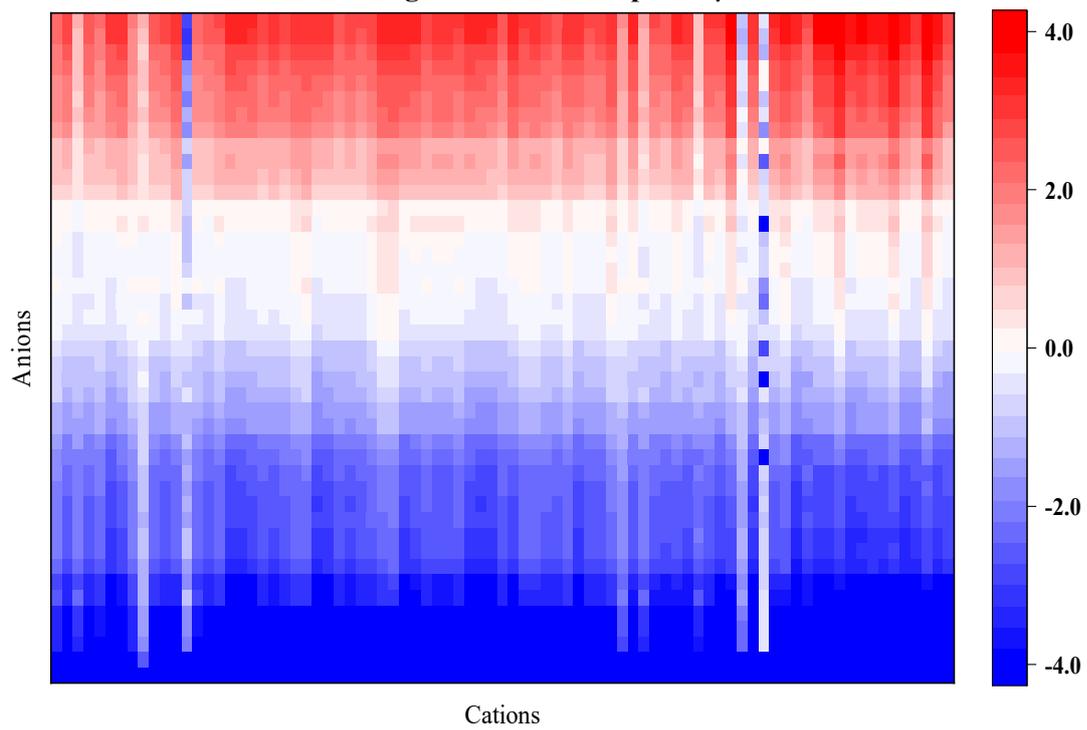


Fig. S3. SEM image of octahedral crystals UiO-66

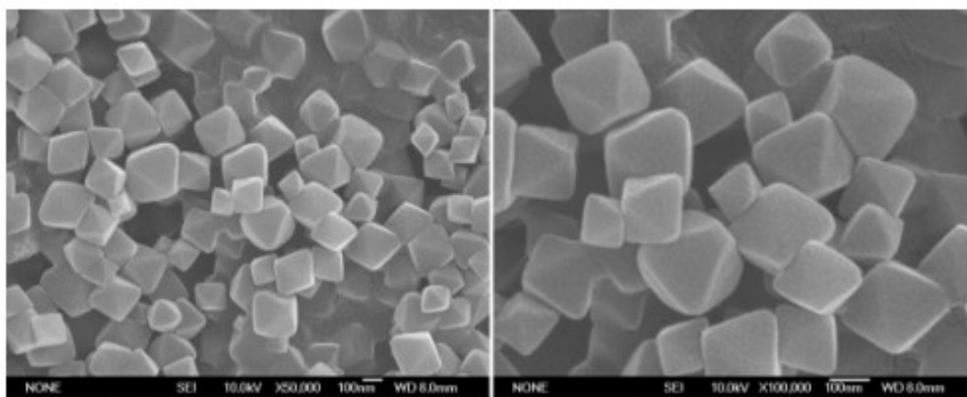


Fig. S4. Van't Hoff plot for MB adsorption on [EtOHMIM][PF₆]@UiO-66-DES

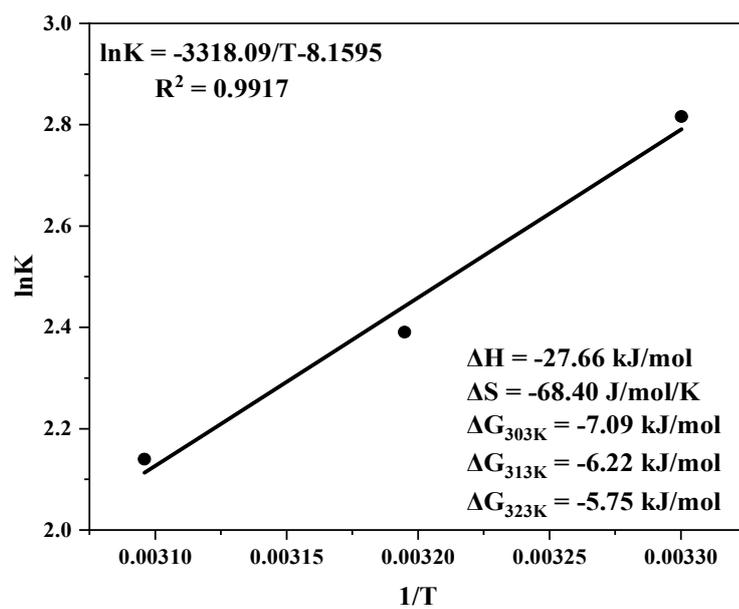


Table S1. The list of 83 cations and 43 anions

Cation	Anion
1-(2-ethoxy-2-oxoethyl)-3-methyl-imidazolium	1-butanefulfonate
1-(2-ethoxyethyl)-3-methyl-imidazolium	2-(2-methoxyethoxy)ethylsulfate
1-(2-hydroxyethyl)-3-methylimidazolium	acetate
1-(2-methoxyethyl)-3-methylimidazolium	benzoicacid
1-(3-cyanopropyl)-3-methylimidazolium	bf4
1,2,3-trimethylimidazolium	bis(fluorosulfonyl)imide
1,2-dimethyl-3-(phenylmethyl)imidazolium	bis(trifluoromethylsulfonyl)methane
1,3-bis(3-cyanopropyl)imidazolium	br
1,3-bis(cyanomethyl)imidazolium	butanoicacid
1,3-diethoxyimidazolium	carbonicacid
1,3-diethylimidazolium	cl
1,3-dihexyl-imidazolium	clo4
1,3-dihydroxy-2-methylimidazolium	dibutylphosphate
1,3-dimethoxyimidazolium	dicyanamide
1,3-methyl-imidazolium	diethylphosphate
1-benzyl-3-methyl-imidazolium	dihydrogen-phosphate
1-butyl-1-methylpiperidinium	dimethylphosphate
1-butyl-1-methyl-pyrrolidinium	ethylsulfate
1-butyl-2,3-dimethyl-imidazolium	f
1-butyl-3-methyl-imidazolium	formate
1-butyl-3-methyl-pyridinium	hso4
1-butyl-pyridinium	hydroxy-aceticacid
1-decyl-3-methyl-imidazolium	i
1-dodecyl-3-methyl-imidazolium	lactate
1-ethyl-1-methyl-pyrrolidinium	methanesulfonate
1-ethyl-2,3-dimethyl-imidazolium	methylcarbonate
1-ethyl-3-methyl-imidazolium	methylsulfate
1-ethyl-3-methylpyridinium	no3
1-ethyl-pyridinium	octylsulfate
1-heptyl-3-methyl-imidazolium	oh
1-hexadecyl-3-methyl-imidazolium	perfluorobutanefulfonate
1-hexadecylpyridinium	pf6
1-hexyl-1-methyl-pyrrolidinium	propionicacid
1-hexyl-2-3-methyl-imidazolium	saccharin
1-hexyl-3-methyl-imidazolium	sbf6
1-hexyl-3-methyl-pyridinium	tetracyanoborate
1-hexyl-4-methyl-pyridinium	tf2n
1-hexyl-pyridinium	thiocyanate
1-methyl-1-pentylpyrrolidinium	toluene-4-sulfonate
1-methyl-1-propylpiperidinium	tricyanomethane
1-methyl-1-propylpyrrolidinium	trifluoroaceticacid

1-methyl-pyridinium
1-octyl-1-methyl-pyrrolidinium
1-octyl-3-methyl-imidazolium
1-octyl-pyridinium
1-pentyl-3-methyl-imidazolium
1-propenyl-3-methyl-imidazolium
1-propenyl-3-octyl-imidazolium
1-propyl-2-3-methyl-imidazolium
1-propyl-3-methyl-imidazolium
1-propylpyridinium
1-tetradecyl-3-methyl-imidazolium
3-(cyanomethyl)-1-methyl-imidazolium
3-methyl-1-octyl-pyridinium
3-methyl-imidazolium
4-butyl-4-methylmorpholinium
4-ethyl-4-methylmorpholinium
4-methyl-1-octyl-pyridinium
4-methyl-n-butylpyridinium
choline
dibutylimidazolium
ethyl-dimethyl-2-methoxyethylammonium
methyl-trioctyl-ammonium
n-(3-sulfopropyl)pyridinium
n,n-diethyl-n-methylethylammonium
nh₄
octyltrimethylammonium
tetradecyltrimethylammonium
tetra-ethylammonium
tetramethylammonium
tetra-n-butylammonium
tetra-n-butylphosphonium
tetraoctylammonium
tetrapropylammonium
tributyl-ethyl-phosphonium
tributylmethylammonium
tributylmethylphosphonium
tributyl-tetradecylphosphonium
triethylpentylammonium
triethylsulfonium
trihexyl-tetradecyl-phosphonium
triisobutyl-methyl-phosphonium
trimethylethylammonium

Table S2. Infinite dilution activity coefficient of H₂O in ILs

	oh	f	acetate	propionicacid	butanoicacid	benzoicacid	formate	methylcarbonate	hydroxy-aceticacid	lactate	diethylphosphate	carbonicacid	dimethylphosphate
1-(2-ethoxy-2-oxoethyl)-3-methylimidazolium	-8.43	-5.50	-3.39	-3.31	-3.28	-2.59	-2.68	-2.24	-2.00	-1.97	-2.02	-1.96	-1.96
1-(2-ethoxyethyl)-3-methylimidazolium	-10.79	-6.74	-4.27	-4.21	-4.18	-3.40	-3.34	-2.77	-2.54	-2.52	-2.46	-2.43	-2.39
1-(2-hydroxyethyl)-3-methylimidazolium	-8.82	-5.80	-3.24	-3.14	-3.08	-2.36	-2.69	-2.27	-1.96	-1.90	-2.05	-2.03	-2.00
1-(2-methoxyethyl)-3-methylimidazolium	-10.71	-6.73	-4.23	-4.16	-4.13	-3.35	-3.33	-2.76	-2.53	-2.50	-2.45	-2.44	-2.38
1-(3-cyanopropyl)-3-methylimidazolium	-9.88	-6.14	-3.79	-3.72	-3.69	-2.97	-2.98	-2.46	-2.24	-2.21	-2.18	-2.19	-2.12
1,2,3-trimethylimidazolium	-12.24	-7.55	-4.92	-4.86	-4.82	-4.01	-3.86	-3.17	-2.98	-2.96	-2.76	-2.85	-2.70
1,2-dimethyl-3-(phenylmethyl)imidazolium	-11.41	-6.98	-4.53	-4.49	-4.47	-3.69	-3.49	-2.87	-2.67	-2.67	-2.53	-2.51	-2.45
1,3-bis(3-cyanopropyl)imidazolium	-9.25	-5.66	-3.44	-3.39	-3.36	-2.69	-2.67	-2.20	-1.99	-1.97	-1.96	-1.95	-1.89
1,3-bis(cyanomethyl)imidazolium	-3.93	-2.55	-1.60	-1.56	-1.53	-1.12	-1.27	-1.13	-0.98	-0.96	-1.10	-0.96	-1.07
1,3-diethoxyimidazolium	-10.79	-6.94	-3.99	-3.90	-3.86	-3.01	-3.17	-2.65	-2.34	-2.29	-2.37	-2.29	-2.30
1,3-diethylimidazolium	-11.00	-7.00	-4.37	-4.29	-4.26	-3.44	-3.46	-2.89	-2.63	-2.60	-2.56	-2.54	-2.50
1,3-dihexylimidazolium	-10.93	-6.85	-4.19	-4.13	-4.11	-3.28	-3.22	-2.66	-2.39	-2.37	-2.38	-2.27	-2.27
1,3-dihydroxy-2-methylimidazolium	-5.94	-4.90	-1.93	-1.81	-1.76	-0.98	-1.65	-1.45	-1.00	-0.92	-1.45	-1.22	-1.39
1,3-dimethoxyimidazolium	-10.31	-6.64	-3.81	-3.71	-3.67	-2.86	-3.06	-2.55	-2.26	-2.26	-2.28	-2.25	-2.22
1,3-methylimidazolium	-10.92	-6.95	-4.30	-4.21	-4.16	-3.38	-3.45	-2.86	-2.62	-2.57	-2.51	-2.57	-2.46
1-benzyl-3-methylimidazolium	-10.37	-6.48	-4.00	-3.94	-3.91	-3.14	-3.12	-2.59	-2.35	-2.33	-2.31	-2.26	-2.23
1-butyl-1-methylpiperidinium	-12.71	-7.74	-5.18	-5.14	-5.12	-4.30	-3.98	-3.28	-3.09	-3.10	-2.86	-2.88	-2.78
1-butyl-1-methylpyrrolidinium	-12.62	-7.67	-5.13	-5.09	-5.08	-4.26	-3.95	-3.25	-3.07	-3.07	-2.84	-2.87	-2.76
1-butyl-2,3-dimethylimidazolium	-12.20	-7.45	-4.89	-4.84	-4.83	-4.01	-3.77	-3.11	-2.91	-2.91	-2.73	-2.73	-2.65
1-butyl-3-methylimidazolium	-10.87	-6.84	-4.26	-4.19	-4.16	-3.37	-3.36	-2.80	-2.54	-2.52	-2.49	-2.44	-2.41
1-butyl-3-methylpyridinium	-11.36	-7.14	-4.58	-4.52	-4.50	-3.68	-3.57	-2.97	-2.73	-2.72	-2.63	-2.59	-2.55
1-butyl-pyridinium	-10.48	-6.54	-4.22	-4.17	-4.14	-3.39	-3.31	-2.76	-2.54	-2.52	-2.46	-2.42	-2.38
1-decyl-3-methylimidazolium	-10.68	-6.62	-4.07	-4.01	-4.00	-3.20	-3.13	-2.59	-2.33	-2.31	-2.31	-2.21	-2.21
1-dodecyl-3-methylimidazolium	-10.64	-6.57	-4.02	-3.96	-3.95	-3.15	-3.07	-2.53	-2.26	-2.25	-2.26	-2.15	-2.15
1-ethyl-1-methylpyrrolidinium	-12.65	-7.78	-5.18	-5.12	-5.09	-4.28	-4.05	-3.32	-3.14	-3.13	-2.88	-2.98	-2.82
1-ethyl-2,3-dimethylimidazolium	-12.18	-7.51	-4.92	-4.87	-4.84	-4.03	-3.84	-3.17	-2.97	-2.96	-2.77	-2.82	-2.70
1-ethyl-3-methylimidazolium	-10.93	-6.94	-4.32	-4.24	-4.20	-3.40	-3.44	-2.86	-2.62	-2.58	-2.53	-2.54	-2.47
1-ethyl-3-methylpyridinium	-11.38	-7.17	-4.61	-4.55	-4.52	-3.71	-3.63	-3.02	-2.79	-2.79	-2.67	-2.67	-2.60
1-ethyl-pyridinium	-10.56	-6.64	-4.26	-4.19	-4.16	-3.40	-3.38	-2.81	-2.60	-2.57	-2.49	-2.50	-2.43
1-heptyl-3-methylimidazolium	-10.71	-6.69	-4.14	-4.08	-4.06	-3.26	-3.22	-2.68	-2.42	-2.40	-2.39	-2.31	-2.30
1-hexadecyl-3-methylimidazolium	-10.55	-6.49	-3.92	-3.87	-3.85	-3.05	-2.96	-2.42	-2.15	-2.14	-2.16	-2.04	-2.05
1-hexadecylpyridinium	-10.18	-6.20	-3.90	-3.85	-3.84	-3.08	-2.93	-2.39	-2.15	-2.15	-2.13	-2.02	-2.03
1-hexyl-1-methylpyrrolidinium	-12.42	-7.51	-5.02	-4.99	-4.98	-4.17	-3.83	-3.15	-2.97	-2.98	-2.76	-2.75	-2.67
1-hexyl-2,3-methylimidazolium	-12.06	-7.33	-4.80	-4.77	-4.76	-3.94	-3.68	-3.03	-2.83	-2.83	-2.67	-2.64	-2.57
1-hexyl-3-methylimidazolium	-10.79	-6.74	-4.19	-4.13	-4.10	-3.31	-3.27	-2.72	-2.46	-2.44	-2.42	-2.36	-2.34
1-hexyl-3-methylpyridinium	-11.33	-7.07	-4.50	-4.45	-4.43	-3.62	-3.49	-2.89	-2.65	-2.64	-2.56	-2.50	-2.47
1-hexyl-4-methylpyridinium	-11.29	-7.06	-4.50	-4.45	-4.43	-3.61	-3.49	-2.89	-2.65	-2.64	-2.57	-2.50	-2.47
1-hexyl-pyridinium	-10.40	-6.45	-4.15	-4.10	-4.08	-3.32	-3.23	-2.68	-2.46	-2.44	-2.39	-2.33	-2.31
1-methyl-1-pentylpyrrolidinium	-12.52	-7.59	-5.08	-5.04	-5.03	-4.22	-3.89	-3.20	-3.02	-3.03	-2.80	-2.81	-2.71
1-methyl-1-propylpiperidinium	-12.76	-7.80	-5.22	-5.17	-5.15	-4.32	-4.03	-3.32	-3.14	-3.14	-2.90	-2.94	-2.82
1-methyl-1-propylpyrrolidinium	-12.68	-7.75	-5.18	-5.13	-5.11	-4.29	-4.01	-3.30	-3.12	-3.12	-2.87	-2.93	-2.80
1-methyl-pyridinium	-10.43	-6.57	-4.16	-4.07	-4.04	-3.30	-3.32	-2.74	-2.53	-2.50	-2.41	-2.47	-2.36
1-octyl-1-methylpyrrolidinium	-12.39	-7.44	-4.97	-4.94	-4.94	-4.13	-3.76	-3.08	-2.90	-2.92	-2.70	-2.68	-2.60
1-octyl-3-methylimidazolium	-10.68	-6.66	-4.12	-4.06	-4.04	-3.24	-3.19	-2.64	-2.39	-2.37	-2.36	-2.28	-2.27
1-octyl-pyridinium	-10.33	-6.38	-4.09	-4.04	-4.02	-3.27	-3.15	-2.61	-2.39	-2.37	-2.33	-2.26	-2.25
1-pentyl-3-methylimidazolium	-10.83	-6.79	-4.23	-4.16	-4.13	-3.34	-3.31	-2.76	-2.50	-2.48	-2.46	-2.40	-2.38
1-propenyl-3-methylimidazolium	-10.79	-6.78	-4.19	-4.12	-4.09	-3.30	-3.32	-2.76	-2.51	-2.48	-2.45	-2.43	-2.38
1-propenyl-3-octylimidazolium	-10.68	-6.64	-4.07	-4.01	-3.99	-3.19	-3.14	-2.59	-2.33	-2.31	-2.32	-2.22	-2.22
1-propyl-2,3-methylimidazolium	-12.26	-7.52	-4.94	-4.89	-4.86	-4.05	-3.83	-3.16	-2.96	-2.95	-2.77	-2.79	-2.69
1-propyl-3-methylimidazolium	-10.93	-6.90	-4.30	-4.23	-4.20	-3.40	-3.41	-2.84	-2.59	-2.56	-2.52	-2.49	-2.45
1-propylpyridinium	-10.55	-6.61	-4.26	-4.20	-4.17	-3.41	-3.36	-2.80	-2.58	-2.55	-2.49	-2.47	-2.42
1-tetradecyl-3-methylimidazolium	-10.56	-6.52	-3.96	-3.90	-3.89	-3.09	-3.01	-2.47	-2.20	-2.19	-2.20	-2.09	-2.10
3-(cyanomethyl)-1-methylimidazolium	-6.61	-4.62	-2.74	-2.65	-2.61	-1.99	-2.22	-1.88	-1.64	-1.60	-1.72	-1.66	-1.68
3-methyl-1-octylpyridinium	-11.26	-7.00	-4.45	-4.40	-4.39	-3.57	-3.42	-2.83	-2.59	-2.58	-2.51	-2.44	-2.41
3-methylimidazolium	-8.53	-5.77	-3.27	-3.16	-3.10	-2.35	-2.72	-2.30	-1.99	-1.99	-2.08	-2.04	-2.04
4-butyl-4-methylmorpholinium	-10.96	-6.67	-4.38	-4.33	-4.31	-3.58	-3.38	-2.78	-2.60	-2.59	-2.44	-2.46	-2.38
4-ethyl-4-methylmorpholinium	-11.15	-6.88	-4.47	-4.40	-4.37	-3.63	-3.51	-2.87	-2.69	-2.66	-2.49	-2.60	-2.44
4-methyl-1-octylpyridinium	-11.23	-6.99	-4.43	-4.38	-4.37	-3.55	-3.41	-2.81	-2.57	-2.57	-2.50	-2.42	-2.40
4-methyl-n-butylpyridinium	-11.40	-7.15	-4.58	-4.52	-4.50	-3.68	-3.58	-2.97	-2.73	-2.72	-2.63	-2.59	-2.55
choline	-10.05	-6.39	-3.56	-3.45	-3.38	-2.64	-2.99	-2.47	-2.17	-2.09	-2.19	-2.27	-2.15
dibutylimidazolium	-11.02	-6.96	-4.29	-4.23	-4.20	-3.37	-3.35	-2.79	-2.51	-2.49	-2.49	-2.40	-2.39
ethyl-dimethyl-2-methoxyethylammonium	-11.98	-7.36	-4.85	-4.80	-4.77	-3.98	-3.77	-3.11	-2.92	-2.91	-2.71	-2.76	-2.64
methyl-trioctyl-ammonium	-12.52	-7.47	-4.87	-4.85	-4.86	-4.01	-3.58	-2.87	-2.68	-2.71	-2.51	-2.43	-2.38
n-(3-sulfopropyl)pyridinium	-7.08	-4.57	-2.22	-2.13	-2.09	-1.45	-1.83	-1.55	-1.22	-1.17	-1.45	-1.35	-1.40
n,n-diethyl-n-methylethylammonium	-12.84	-7.87	-5.25	-5.19	-5.17	-4.34	-4.08	-3.35	-3.17	-3.16	-2.91	-2.99	-2.84
nh4	-9.31	-9.41	-0.42	-0.45	-0.45	-0.35	-0.54	-0.76	-0.78	-0.65	-0.92	-0.76	-0.96
octyltrimethylammonium	-11.34	-6.82	-4.51	-4.48	-4.47	-3.72	-3.44	-2.83	-2.64	-2.64	-2.49	-2.46	-2.40
tetradecyltrimethylammonium	-11.15	-6.62	-4.35	-4.32	-4.32	-3.57	-3.25	-2.64	-2.45	-2.47	-2.33	-2.27	-2.23
tetra-ethylammonium	-13.36	-8.14	-5.48	-5.43	-5.41	-4.56	-4.23	-3.47	-3.30	-3.30	-3.01	-3.09	-2.94
tetramethylammonium	-11.41	-7.13	-4.61	-4.51	-4.45	-3.70	-3.70	-3.00	-2.82	-2.76	-2.56	-2.78	-2.54
tetra-n-butylammonium	-13.58	-8.20	-5.47	-5.45	-5.45	-4.55	-4.11	-3.35	-3.17	-3.20	-2.92	-2.89	-2.80
tetra-n-butylphosphonium	-13.42	-8.09	-5.41	-5.39	-5.39	-4.51	-4.06	-3.30	-3.12	-3.15	-2.89	-2.85	-2.76
tetraoctylammonium	-13.38	-7.93	-5.14	-5.13	-5.15	-4.25	-3.72	-2.95	-2.77	-2.82	-2.56	-2.48	-2.41
tetrapropylammonium	-13.65	-8.29	-5.55	-5.52	-5.52	-4.63	-4.23	-3.46	-3.28	-3.31	-3.02	-3.03	-2.92
tributyl-ethyl-phosphonium	-13.56	-8.16	-5.48	-5.47	-5.47	-4.58	-4.13	-3.37	-3.20	-3.22	-2.94	-2.92	-2.83
tributylmethylammonium	-12.72	-7.71	-5.14	-5.11	-5.11	-4.27	-3.90	-3.20	-3.01	-3.03	-2.80	-2.78	-2.70
tributylmethylphosphonium	-13.04	-7.85	-5.27	-5.25	-5.25	-4.39	-3.98	-3.25	-3.07	-3.10	-2.85	-2.83	-2.74
tributyl-tetradecylphosphonium	-13.61	-8.06	-5.32	-5.31	-5.33	-4.43	-3.88	-3.10	-2.93	-2.98	-2.69	-2.63	-2.54
triethylpentaammonium	-13.31	-8.04	-5.41	-5.39	-5.38	-4.52	-4.12	-3.38	-3.21	-3.22	-2.95	-2.96	-2.85
triethylsulfonium	-12.32	-7.58	-5.03	-4.98	-4.96	-4.14	-3.92	-3.23	-3.04	-3.03	-2.82	-2.86	-2.75
trihexyl-tetradecyl-phosphonium	-13.30	-7.86	-5.11	-5.10	-5.12	-4.22	-3.69	-2.93	-2.75	-2.80	-2.53	-2.46	-2.38
triisobutyl-methyl-phosphonium	-13.15	-8.00	-5.32	-5.30	-5.29	-4.42	-4.05	-3.32	-3.13	-3.15	-2.91	-2.89	-2.80
trimethylethylammonium	-11.76	-7.29	-4.77	-4.70	-4.65	-3.89	-3.78	-3.09	-2.91	-2.88	-2.67	-2.82	-2.63

	dibutylphosphate	cl	dihydrogen-phosphate	methanesulfonate	1-butanedisulfonate	trifluoroaceticacid	br	toluene-4-sulfonate	no3	saccharin	dicyanamide	hs04	thiocyanate	ethylsulfate
1-(2-ethoxy-2-oxoethyl)-3-methylimidazolium	-1.86	-1.70	-1.51	-1.22	-1.14	-0.75	-0.72	-0.67	-0.48	-0.19	-0.08	-0.16	0.13	-0.03
1-(2-ethoxyethyl)-3-methylimidazolium	-2.29	-2.10	-1.89	-1.47	-1.39	-1.07	-0.96	-0.85	-0.68	-0.34	-0.24	-0.24	-0.05	-0.09
1-(2-hydroxyethyl)-3-methylimidazolium	-1.88	-1.92	-1.59	-1.37	-1.25	-0.81	-1.04	-0.80	-0.66	-0.31	-0.28	-0.42	-0.05	-0.31
1-(2-methoxyethyl)-3-methylimidazolium	-2.28	-2.13	-1.90	-1.49	-1.40	-1.08	-1.00	-0.86	-0.71	-0.35	-0.26	-0.28	-0.08	-0.13
1-(3-cyanopropyl)-3-methylimidazolium	-2.02	-1.88	-1.72	-1.32	-1.23	-0.91	-0.88	-0.75	-0.60	-0.28	-0.18	-0.24	-0.01	-0.09
1,2,3-trimethylimidazolium	-2.57	-2.48	-2.25	-1.72	-1.59	-1.37	-1.27	-1.01	-0.94	-0.50	-0.43	-0.41	-0.29	-0.22
1,2-dimethyl-3-(phenylmethyl)imidazolium	-2.37	-2.11	-1.96	-1.46	-1.38	-1.12	-0.93	-0.83	-0.66	-0.32	-0.21	-0.18	-0.05	-0.02
1,3-bis(3-cyanopropyl)imidazolium	-1.82	-1.61	-1.53	-1.13	-1.07	-0.75	-0.68	-0.62	-0.44	-0.19	-0.08	-0.14	0.09	0.00
1,3-bis(cyanomethyl)imidazolium	-0.96	-0.77	-0.75	-0.72	-0.69	-0.34	-0.19	-0.39	-0.19	-0.07	0.01	-0.09	0.22	-0.06
1,3-diethoxymidazolium	-2.20	-2.07	-1.75	-1.43	-1.35	-0.91	-0.89	-0.81	-0.61	-0.25	-0.14	-0.22	0.10	-0.09
1,3-diethylimidazolium	-2.38	-2.26	-1.98	-1.59	-1.49	-1.15	-1.10	-0.93	-0.79	-0.40	-0.32	-0.33	-0.12	-0.18
1,3-diethylimidazolium	-2.23	-1.95	-1.72	-1.28	-1.24	-0.86	-0.76	-0.68	-0.43	-0.13	-0.01	0.01	0.20	0.15
1,3-dihydroxy-2-methylimidazolium	-1.28	-1.57	-0.85	-1.17	-1.07	-0.27	-0.98	-0.75	-0.53	-0.40	-0.25	-0.81	-0.17	-0.79
1,3-dimethoxymidazolium	-2.11	-2.05	-1.73	-1.43	-1.33	-0.90	-0.93	-0.81	-0.64	-0.28	-0.16	-0.27	0.07	-0.15
1,3-methylimidazolium	-2.32	-2.32	-2.01	-1.62	-1.48	-1.16	-1.19	-0.94	-0.86	-0.43	-0.35	-0.41	-0.18	-0.24
1-benzyl-3-methylimidazolium	-2.15	-1.94	-1.75	-1.35	-1.28	-0.94	-0.84	-0.76	-0.57	-0.25	-0.14	-0.16	0.06	-0.02
1-butyl-1-methylpiperidinium	-2.69	-2.43	-2.26	-1.68	-1.60	-1.40	-1.19	-1.00	-0.86	-0.48	-0.42	-0.29	-0.27	-0.12
1-butyl-1-methylpyrrolidinium	-2.66	-2.42	-2.26	-1.68	-1.59	-1.39	-1.20	-1.00	-0.87	-0.49	-0.42	-0.31	-0.28	-0.13
1-butyl-2,3-dimethylimidazolium	-2.56	-2.31	-2.14	-1.60	-1.52	-1.29	-1.08	-0.94	-0.79	-0.42	-0.33	-0.26	-0.17	-0.09
1-butyl-3-methylimidazolium	-2.32	-2.14	-1.90	-1.50	-1.42	-1.07	-0.99	-0.87	-0.70	-0.34	-0.25	-0.26	-0.05	-0.11
1-butyl-3-methylpyridinium	-2.46	-2.25	-2.02	-1.56	-1.48	-1.18	-1.03	-0.91	-0.75	-0.38	-0.28	-0.26	-0.10	-0.10
1-butyl-pyridinium	-2.29	-2.08	-1.88	-1.48	-1.40	-1.08	-0.93	-0.86	-0.70	-0.35	-0.24	-0.25	-0.05	-0.11
1-decyl-3-methylimidazolium	-2.16	-1.87	-1.68	-1.26	-1.21	-0.84	-0.71	-0.66	-0.43	-0.14	-0.01	-0.01	0.20	0.14
1-dodecyl-3-methylimidazolium	-2.12	-1.81	-1.63	-1.19	-1.15	-0.77	-0.64	-0.60	-0.35	-0.07	0.07	0.06	0.27	0.21
1-ethyl-1-methylpyrrolidinium	-2.69	-2.57	-2.36	-1.79	-1.66	-1.47	-1.36	-1.07	-1.00	-0.56	-0.52	-0.43	-0.39	-0.24
1-ethyl-2,3-dimethylimidazolium	-2.59	-2.44	-2.22	-1.69	-1.59	-1.35	-1.21	-1.00	-0.90	-0.49	-0.41	-0.37	-0.26	-0.19
1-ethyl-3-methylimidazolium	-2.35	-2.27	-1.98	-1.60	-1.48	-1.15	-1.12	-0.93	-0.82	-0.41	-0.33	-0.36	-0.14	-0.21
1-ethyl-3-methylpyridinium	-2.48	-2.34	-2.09	-1.64	-1.54	-1.25	-1.14	-0.97	-0.85	-0.44	-0.36	-0.35	-0.18	-0.19
1-ethyl-pyridinium	-2.31	-2.20	-1.96	-1.57	-1.46	-1.15	-1.07	-0.92	-0.81	-0.41	-0.31	-0.35	-0.13	-0.20
1-heptyl-3-methylimidazolium	-2.23	-1.99	-1.78	-1.37	-1.30	-0.95	-0.83	-0.76	-0.55	-0.23	-0.12	-0.13	0.08	0.02
1-hexadecyl-3-methylimidazolium	-2.03	-1.69	-1.52	-1.07	-1.03	-0.65	-0.51	-0.49	-0.22	0.04	0.20	0.20	0.40	0.34
1-hexadecylpyridinium	-2.00	-1.64	-1.52	-1.05	-1.02	-0.66	-0.47	-0.49	-0.22	0.03	0.20	0.20	0.39	0.35
1-hexyl-1-methylpyrrolidinium	-2.60	-2.28	-2.15	-1.57	-1.50	-1.30	-1.06	-0.92	-0.75	-0.41	-0.33	-0.20	-0.18	-0.03
1-hexyl-2,3-methylimidazolium	-2.51	-2.20	-2.05	-1.50	-1.44	-1.20	-0.96	-0.86	-0.68	-0.34	-0.24	-0.16	-0.08	0.00
1-hexyl-3-methylimidazolium	-2.26	-2.03	-1.82	-1.41	-1.34	-0.99	-0.88	-0.80	-0.60	-0.27	-0.17	-0.17	0.04	-0.02
1-hexyl-3-methylpyridinium	-2.40	-2.14	-1.94	-1.47	-1.41	-1.09	-0.92	-0.84	-0.64	-0.30	-0.19	-0.16	0.00	-0.01
1-hexyl-4-methylpyridinium	-2.41	-2.14	-1.93	-1.47	-1.41	-1.09	-0.92	-0.83	-0.64	-0.30	-0.19	-0.16	0.00	-0.01
1-hexyl-pyridinium	-2.23	-1.97	-1.81	-1.39	-1.33	-1.00	-0.83	-0.79	-0.60	-0.27	-0.15	-0.17	0.04	-0.02
1-methyl-1-pentylpyrrolidinium	-2.63	-2.35	-2.21	-1.62	-1.55	-1.35	-1.13	-0.96	-0.81	-0.45	-0.37	-0.25	-0.23	-0.08
1-methyl-1-propylpiperidinium	-2.72	-2.50	-2.31	-1.73	-1.64	-1.44	-1.26	-1.04	-0.92	-0.52	-0.47	-0.35	-0.33	-0.17
1-methyl-1-propylpyrrolidinium	-2.69	-2.50	-2.31	-1.74	-1.63	-1.44	-1.28	-1.04	-0.94	-0.53	-0.48	-0.37	-0.34	-0.19
1-methyl-pyridinium	-2.22	-2.20	-1.95	-1.55	-1.42	-1.12	-1.10	-0.90	-0.82	-0.40	-0.30	-0.37	-0.13	-0.21
1-octyl-1-methylpyrrolidinium	-2.55	-2.19	-2.09	-1.48	-1.43	-1.22	-0.96	-0.85	-0.66	-0.34	-0.24	-0.11	-0.09	0.05
1-octyl-3-methylimidazolium	-2.21	-1.94	-1.74	-1.33	-1.27	-0.91	-0.78	-0.73	-0.51	-0.20	-0.08	-0.09	0.12	0.06
1-octyl-pyridinium	-2.18	-1.89	-1.74	-1.31	-1.26	-0.92	-0.74	-0.72	-0.51	-0.21	-0.07	-0.08	0.12	0.06
1-pentyl-3-methylimidazolium	-2.29	-2.08	-1.85	-1.45	-1.38	-1.03	-0.93	-0.83	-0.65	-0.31	-0.21	-0.21	-0.01	-0.07
1-propenyl-3-methylimidazolium	-2.27	-2.14	-1.89	-1.50	-1.41	-1.07	-1.01	-0.87	-0.72	-0.35	-0.26	-0.29	-0.06	-0.14
1-propenyl-3-octylimidazolium	-2.17	-1.88	-1.69	-1.27	-1.22	-0.84	-0.73	-0.67	-0.44	-0.14	-0.01	-0.02	0.19	0.12
1-propyl-2,3-methylimidazolium	-2.59	-2.38	-2.19	-1.65	-1.56	-1.33	-1.15	-0.98	-0.85	-0.46	-0.38	-0.31	-0.22	-0.14
1-propyl-3-methylimidazolium	-2.34	-2.21	-1.94	-1.55	-1.46	-1.12	-1.05	-0.91	-0.76	-0.38	-0.30	-0.31	-0.10	-0.16
1-propylpyridinium	-2.31	-2.14	-1.93	-1.53	-1.44	-1.12	-1.00	-0.90	-0.76	-0.38	-0.28	-0.30	-0.10	-0.16
1-tetradecyl-3-methylimidazolium	-2.07	-1.74	-1.57	-1.12	-1.09	-0.70	-0.57	-0.54	-0.28	-0.01	0.14	0.13	0.34	0.27
3-(cyanomethyl)-1-methylimidazolium	-1.56	-1.51	-1.28	-1.12	-1.04	-0.61	-0.65	-0.62	-0.43	-0.18	-0.05	-0.19	0.17	-0.11
3-methyl-1-octylpyridinium	-2.36	-2.06	-1.87	-1.39	-1.34	-1.02	-0.84	-0.77	-0.56	-0.24	-0.11	-0.08	0.07	0.07
3-methylimidazolium	-1.90	-1.98	-1.56	-1.42	-1.30	-0.80	-1.00	-0.82	-0.67	-0.31	-0.24	-0.37	0.03	-0.29
4-butyl-4-methylmorpholinium	-2.28	-2.06	-1.94	-1.45	-1.36	-1.12	-0.97	-0.84	-0.69	-0.36	-0.28	-0.24	-0.12	-0.08
4-ethyl-4-methylmorpholinium	-2.31	-2.24	-2.06	-1.56	-1.43	-1.19	-1.15	-0.90	-0.83	-0.43	-0.36	-0.36	-0.22	-0.17
4-methyl-1-octylpyridinium	-2.35	-2.05	-1.86	-1.39	-1.33	-1.01	-0.83	-0.77	-0.55	-0.23	-0.11	-0.08	0.08	0.07
4-methyl-n-butylpyridinium	-2.46	-2.24	-2.01	-1.56	-1.48	-1.18	-1.03	-0.91	-0.74	-0.38	-0.28	-0.25	-0.10	-0.10
choline	-2.01	-2.14	-1.79	-1.48	-1.32	-0.91	-1.23	-0.86	-0.78	-0.36	-0.35	-0.50	-0.14	-0.35
dibutylimidazolium	-2.33	-2.10	-1.84	-1.43	-1.37	-1.00	-0.92	-0.81	-0.60	-0.26	-0.16	-0.15	0.05	-0.01
ethyl-dimethyl-2-methoxyethylammonium	-2.53	-2.36	-2.18	-1.64	-1.54	-1.32	-1.18	-0.97	-0.86	-0.47	-0.40	-0.34	-0.25	-0.16
methyl-trioctyl-ammonium	-2.39	-1.92	-1.83	-1.16	-1.14	-0.91	-0.62	-0.54	-0.27	-0.01	0.14	0.30	0.28	0.46
n-(3-sulfopropyl)pyridinium	-1.32	-1.28	-1.04	-0.91	-0.85	-0.33	-0.62	-0.50	-0.26	-0.06	0.00	-0.31	0.26	-0.24
n,n-diethyl-n-methylethylammonium	-2.72	-2.57	-2.37	-1.79	-1.67	-1.48	-1.33	-1.07	-0.99	-0.56	-0.50	-0.42	-0.37	-0.22
nh4	-0.67	-7.90	-0.61	-1.06	-1.07	-0.41	-6.70	-0.63	-2.69	-0.46	-1.03	-2.29	-1.62	-0.73
octyltrimethylammonium	-2.34	-2.01	-1.92	-1.39	-1.33	-1.09	-0.87	-0.79	-0.60	-0.29	-0.19	-0.12	-0.03	0.04
tetradecyltrimethylammonium	-2.20	-1.79	-1.73	-1.18	-1.15	-0.88	-0.64	-0.60	-0.37	-0.10	0.03	0.11	0.19	0.27
tetra-ethylammonium	-2.82	-2.63	-2.44	-1.82	-1.71	-1.55	-1.34	-1.10	-1.01	-0.58	-0.52	-0.41	-0.39	-0.21
tetramethylammonium	-2.36	-2.49	-2.22	-1.71	-1.51	-1.28	-1.41	-0.98	-1.01	-0.49	-0.46	-0.50	-0.36	-0.26
tetra-n-butylammonium	-2.77	-2.38	-2.24	-1.55	-1.51	-1.33	-1.05	-0.88	-0.68	-0.35	-0.25	-0.06	-0.12	0.11
tetra-n-butylphosphonium	-2.74	-2.34	-2.21	-1.52	-1.49	-1.30	-1.02	-0.86	-0.65	-0.33	-0.23	-0.04	-0.09	0.13
tetraoctylammonium	-2.44	-1.93	-1.84	-1.08	-1.09	-0.89	-0.55	-0.45	-0.17	0.08	0.24	0.45	0.37	0.61
tetrapropylammonium	-2.85	-2.54	-2.37	-1.71	-1.65	-1.47	-1.22	-1.01	-0.85	-0.48	-0.41	-0.24	-0.28	-0.06
tributyl-ethyl-phosphonium	-2.79	-2.41	-2.27	-1.59	-1.55	-1.37	-1.08	-0.92	-0.73	-0.39	-0.30	-0.11	-0.16	0.06
tributylmethylammonium	-2.65	-2.30	-2.16	-1.54	-1.49	-1.28	-1.04	-0.89	-0.70	-0.36	-0.27	-0.13	-0.13	0.04
tributylmethylphosphonium	-2.70	-2.32	-2.20	-1.55	-1.50	-1.31	-1.04	-0.89	-0.70	-0.37	-0.27	-0.11	-0.14	0.06
tributyl-tetradecylphosphonium	-2.57	-2.07	-1.98	-1.22	-1.22	-1.04	-0.69	-0.58	-0.32	-0.05	0.10	0.31	0.22	0.48
triethylpentylammonium	-2.78	-2.47	-2.32	-1.68	-1.61	-1.44	-1.16	-0.99	-0.84	-0.47	-0.39	-0.24	-0.25	-0.07
triethylsulfonium	-2.64	-2.44	-2.26	-1.72	-1.61	-1.39	-1.21	-1.02	-0.92	-0.50	-0.43	-0.37	-0.28	-0.19
trihexyl-tetradecyl-phosphonium	-2.42	-1.90	-1.82	-1.07	-1.07	-0.87	-0.53	-0.44	-0.15	0.09	0.26	0.46	0.38	0.63
triisobutyl-methyl-phosphonium	-2.75	-2.41	-2.25	-1.61	-1.56	-1.36	-1.14	-0.94	-0.76	-0.41	-0.34	-0.17	-0.20	0.01
trimethylethylammonium	-2.47	-2.48	-2.23	-1.72	-1.56	-1.34	-1.35	-1.00	-0.98	-0.51	-0.47	-0.46	-0.35	-0.25

	2-(2-methoxyethoxy)ethylsulfate	methylsulfate	i	octylsulfate	trifluoromethanesulfonate	tricyanomethane	b4	perfluorobutanesulfonate	cl4	tetracyanoborate	trifluoromethyltrifluoromethyluoroborate	bis(trifluoromethylsulfonyl)methane	tfzn	pf6	sb6	bis(fluorosulfonyl)mide
1-(2-ethoxy-2-oxoethyl)-3-methylimidazolium	-0.03	0.00	0.25	0.20	0.72	0.97	0.96	1.01	1.44	1.64	1.65	1.79	1.92	2.01	2.21	2.28
1-(2-ethoxyethyl)-3-methylimidazolium	-0.06	-0.05	0.19	0.17	0.79	1.05	1.12	1.14	1.67	1.90	1.97	2.12	2.28	2.43	2.71	2.77
1-(2-hydroxyethyl)-3-methylimidazolium	-0.29	-0.30	-0.23	-0.06	0.27	0.48	0.30	0.52	0.64	0.86	0.73	0.94	0.99	0.86	0.95	1.07
1-(2-methoxyethyl)-3-methylimidazolium	-0.10	-0.09	0.13	0.15	0.74	1.00	1.04	1.08	1.59	1.82	1.88	2.03	2.19	2.32	2.58	2.65
1-(3-cyanopropyl)-3-methylimidazolium	-0.08	-0.06	0.14	0.14	0.67	0.91	0.91	0.95	1.38	1.58	1.59	1.72	1.85	1.92	2.09	2.18
1,2,3-trimethylimidazolium	-0.16	-0.19	0.01	0.09	0.73	1.02	1.08	1.12	1.70	1.99	2.07	2.22	2.42	2.60	2.93	3.01
1,2-dimethyl-3-(phenylmethyl)imidazolium	0.00	0.03	0.29	0.23	0.91	1.17	1.30	1.26	1.88	2.10	2.21	2.32	2.51	2.72	3.04	3.09
1,3-bis(3-cyanopropyl)imidazolium	-0.01	0.03	0.24	0.19	0.68	0.89	0.91	0.92	1.30	1.45	1.45	1.57	1.66	1.72	1.85	1.92
1,3-bis(cyanomethyl)imidazolium	-0.11	-0.02	0.30	0.10	0.34	0.51	0.34	0.54	0.72	0.84	0.63	0.93	1.00	0.79	0.90	1.09
1,3-diethoxyimidazolium	-0.08	-0.06	0.20	0.16	0.74	1.02	1.02	1.06	1.53	1.76	1.78	1.92	2.07	2.18	2.42	2.48
1,3-diethylimidazolium	-0.14	-0.15	0.07	0.11	0.71	0.98	1.02	1.07	1.59	1.84	1.90	2.06	2.23	2.38	2.67	2.74
1,3-dihexylimidazolium	0.15	0.20	0.46	0.37	1.08	1.32	1.48	1.40	2.02	2.19	2.34	2.42	2.59	2.83	3.12	3.13
1,3-dihydroxy-2-methylimidazolium	-0.80	-0.81	-0.98	-0.58	-0.79	-0.65	-1.54	-0.70	-1.62	-1.28	-1.97	-1.49	-1.71	-2.83	-3.20	-2.81
1,3-dimethoxyimidazolium	-0.13	-0.12	0.11	0.11	0.65	0.94	0.88	0.96	1.40	1.64	1.61	1.77	1.91	2.01	2.21	2.30
1,3-methylimidazolium	-0.19	-0.22	-0.04	0.06	0.62	0.91	0.88	0.98	1.47	1.74	1.76	1.93	2.10	2.22	2.49	2.59
1-benzyl-3-methylimidazolium	-0.02	0.02	0.27	0.22	0.82	1.08	1.13	1.14	1.67	1.89	1.94	2.08	2.23	2.39	2.65	2.71
1-butyl-1-methylpiperidinium	-0.07	-0.07	0.16	0.17	0.88	1.12	1.34	1.28	1.96	2.17	2.35	2.46	2.67	2.92	3.29	3.32
1-butyl-1-methylpyrrolidinium	-0.08	-0.09	0.14	0.16	0.86	1.10	1.30	1.25	1.92	2.13	2.31	2.42	2.63	2.87	3.23	3.27
1-butyl-2,3-dimethylimidazolium	-0.05	-0.05	0.21	0.18	0.88	1.14	1.30	1.26	1.90	2.14	2.27	2.39	2.59	2.82	3.17	3.21
1-butyl-3-methylimidazolium	-0.09	-0.08	0.17	0.16	0.77	1.03	1.09	1.12	1.65	1.88	1.95	2.10	2.27	2.42	2.71	2.77
1-butyl-3-methylpyridinium	-0.07	-0.06	0.20	0.17	0.84	1.11	1.22	1.20	1.81	2.05	2.15	2.28	2.47	2.67	3.00	3.05
1-butyl-pyridinium	-0.08	-0.07	0.20	0.16	0.78	1.06	1.11	1.13	1.69	1.94	1.99	2.15	2.33	2.49	2.80	2.86
1-decyl-3-methylimidazolium	0.13	0.19	0.46	0.36	1.04	1.28	1.42	1.36	1.96	2.14	2.26	2.35	2.52	2.74	3.02	3.05
1-dodecyl-3-methylimidazolium	0.19	0.26	0.54	0.42	1.12	1.36	1.51	1.43	2.04	2.21	2.35	2.43	2.59	2.83	3.11	3.13
1-ethyl-1-methylpyrrolidinium	-0.17	-0.21	-0.03	0.08	0.75	1.00	1.13	1.15	1.76	2.02	2.16	2.30	2.50	2.71	3.07	3.12
1-ethyl-2,3-dimethylimidazolium	-0.13	-0.15	0.07	0.11	0.77	1.05	1.15	1.16	1.76	2.03	2.13	2.28	2.47	2.67	3.02	3.07
1-ethyl-3-methylimidazolium	-0.16	-0.18	0.03	0.08	0.66	0.94	0.95	1.02	1.53	1.79	1.82	1.99	2.16	2.29	2.58	2.66
1-ethyl-3-methylpyridinium	-0.14	-0.16	0.08	0.10	0.73	1.02	1.08	1.11	1.68	1.95	2.02	2.17	2.36	2.53	2.86	2.92
1-ethyl-pyridinium	-0.16	-0.17	0.07	0.09	0.68	0.97	0.97	1.04	1.56	1.84	1.86	2.03	2.21	2.35	2.64	2.73
1-heptyl-3-methylimidazolium	0.03	0.06	0.33	0.26	0.91	1.16	1.26	1.24	1.81	2.01	2.11	2.23	2.40	2.58	2.87	2.91
1-hexadecyl-3-methylimidazolium	0.31	0.40	0.68	0.53	1.26	1.49	1.68	1.55	2.20	2.34	2.51	2.55	2.72	2.98	3.25	3.26
1-hexadecylpyridinium	0.31	0.40	0.71	0.54	1.27	1.52	1.71	1.58	2.24	2.41	2.57	2.61	2.79	3.07	3.36	3.37
1-hexyl-1-methylpyrrolidinium	0.00	0.02	0.27	0.23	0.96	1.19	1.42	1.34	2.03	2.22	2.41	2.51	2.71	2.98	3.34	3.36
1-hexyl-2,3-methylimidazolium	0.02	0.05	0.33	0.26	0.97	1.23	1.42	1.34	2.01	2.23	2.38	2.48	2.68	2.93	3.28	3.31
1-hexyl-3-methylimidazolium	-0.01	0.02	0.28	0.23	0.86	1.12	1.21	1.20	1.76	1.98	2.06	2.19	2.36	2.54	2.83	2.88
1-hexyl-3-methylpyridinium	0.01	0.04	0.31	0.25	0.93	1.20	1.34	1.29	1.92	2.13	2.26	2.37	2.56	2.78	3.11	3.14
1-hexyl-4-methylpyridinium	0.01	0.04	0.31	0.25	0.94	1.20	1.34	1.29	1.92	2.14	2.27	2.37	2.56	2.79	3.11	3.15
1-hexyl-pyridinium	0.00	0.02	0.31	0.23	0.87	1.15	1.22	1.22	1.79	2.03	2.11	2.24	2.41	2.60	2.91	2.96
1-methyl-1-pentylpyrrolidinium	-0.04	-0.04	0.20	0.19	0.91	1.15	1.36	1.30	1.97	2.18	2.36	2.47	2.67	2.93	3.29	3.32
1-methyl-1-propylpiperidinium	-0.11	-0.13	0.09	0.13	0.83	1.07	1.27	1.23	1.89	2.12	2.29	2.41	2.62	2.86	3.22	3.26
1-methyl-1-propylpyrrolidinium	-0.13	-0.15	0.06	0.12	0.80	1.05	1.22	1.20	1.85	2.08	2.24	2.37	2.57	2.80	3.16	3.20
1-methyl-pyridinium	-0.17	-0.19	0.01	0.08	0.64	0.94	0.90	0.99	1.49	1.77	1.76	1.95	2.12	2.25	2.52	2.62
1-octyl-1-methylpyrrolidinium	0.07	0.11	0.37	0.30	1.06	1.29	1.54	1.42	2.14	2.32	2.53	2.60	2.81	3.10	3.45	3.46
1-octyl-3-methylimidazolium	0.06	0.10	0.37	0.30	0.95	1.20	1.31	1.28	1.86	2.06	2.16	2.27	2.44	2.63	2.92	2.96
1-octyl-pyridinium	0.07	0.11	0.40	0.30	0.96	1.23	1.33	1.30	1.89	2.11	2.21	2.32	2.50	2.71	3.01	3.05
1-pentyl-3-methylimidazolium	-0.05	-0.03	0.23	0.19	0.82	1.07	1.15	1.16	1.71	1.93	2.01	2.15	2.32	2.48	2.77	2.83
1-propenyl-3-methylimidazolium	-0.11	-0.11	0.12	0.13	0.71	0.99	1.01	1.06	1.57	1.81	1.84	2.01	2.17	2.31	2.58	2.65
1-propenyl-3-octylimidazolium	0.12	0.17	0.45	0.35	1.02	1.27	1.40	1.34	1.93	2.12	2.24	2.33	2.50	2.71	2.99	3.02
1-propyl-2,3-methylimidazolium	-0.09	-0.10	0.14	0.15	0.83	1.09	1.23	1.21	1.84	2.09	2.21	2.34	2.54	2.76	3.11	3.16
1-propyl-3-methylimidazolium	-0.13	-0.13	0.10	0.12	0.72	0.98	1.02	1.07	1.60	1.84	1.89	2.05	2.22	2.36	2.65	2.72
1-propylpyridinium	-0.12	-0.12	0.13	0.12	0.73	1.01	1.04	1.09	1.63	1.89	1.93	2.09	2.27	2.42	2.73	2.80
1-tetradecyl-3-methylimidazolium	0.25	0.33	0.61	0.48	1.19	1.43	1.59	1.49	2.12	2.28	2.43	2.49	2.66	2.90	3.18	3.19
3-(cyanomethyl)-1-methylimidazolium	-0.13	-0.08	0.16	0.10	0.51	0.75	0.68	0.76	1.14	1.27	1.16	1.38	1.48	1.48	1.60	1.74
3-methyl-1-octylpyridinium	0.08	0.12	0.41	0.31	1.03	1.28	1.45	1.37	2.02	2.22	2.37	2.46	2.65	2.89	3.22	3.24
3-methylimidazolium	-0.27	-0.26	-0.10	-0.02	0.38	0.61	0.45	0.67	0.96	1.11	0.94	1.24	1.32	1.22	1.28	1.48
4-butyl-4-methylmorpholinium	-0.06	-0.04	0.18	0.18	0.78	1.01	1.12	1.13	1.65	1.86	1.95	2.09	2.24	2.37	2.63	2.69
4-ethyl-4-methylmorpholinium	-0.13	-0.15	0.01	0.11	0.69	0.93	0.98	1.04	1.53	1.77	1.83	1.98	2.14	2.26	2.50	2.58
4-methyl-1-octylpyridinium	0.08	0.13	0.41	0.31	1.02	1.28	1.45	1.37	2.02	2.22	2.36	2.45	2.64	2.88	3.21	3.23
4-methyl-n-butylpyridinium	-0.06	-0.06	0.21	0.17	0.84	1.11	1.22	1.21	1.81	2.05	2.15	2.28	2.47	2.68	3.00	3.05
choline	-0.31	-0.35	-0.37	-0.08	0.25	0.45	0.25	0.50	0.59	0.83	0.70	0.91	0.95	0.82	0.87	1.00
dibutylimidazolium	0.01	0.04	0.29	0.24	0.90	1.15	1.27	1.24	1.82	2.02	2.14	2.25	2.42	2.62	2.91	2.95
ethyl-dimethyl-2-methoxyethylammonium	-0.11	-0.13	0.08	0.13	0.78	1.03	1.16	1.16	1.75	1.99	2.10	2.24	2.42	2.60	2.92	2.97
methyl-trioctyl-ammonium	0.43	0.53	0.82	0.64	1.52	1.74	2.13	1.85	2.70	2.80	3.11	3.08	3.29	3.69	4.04	4.00
n-(3-sulfopropyl)pyridinium	-0.27	-0.24	-0.27	-0.08	-0.03	0.14	-0.41	0.06	-0.38	-0.08	-0.56	-0.27	-0.37	-0.96	-1.10	-0.87
n,n-diethyl-n-methylethylammonium	-0.16	-0.19	0.01	0.09	0.77	1.03	1.17	1.17	1.80	2.07	2.20	2.34	2.54	2.76	3.13	3.17
nh4	-0.58	-0.91	-4.50	-0.32	-0.50	-0.61	-2.47	0.02	-1.74	-0.43	-1.01	0.02	0.01	-1.31	-1.00	-0.47
octyltrimethylammonium	0.06	0.09	0.35	0.29	0.98	1.22	1.40	1.33	1.98	2.17	2.33	2.43	2.62	2.86	3.20	3.22
tetradecyltrimethylammonium	0.25	0.33	0.61	0.48	1.23	1.46	1.70	1.56	2.26	2.41	2.62	2.67	2.86	3.16	3.48	3.48
tetra-ethylammonium	-0.14	-0.17	0.05	0.10	0.81	1.08	1.26	1.22	1.89	2.15	2.31	2.44	2.65	2.89	3.27	3.31
tetramethylammonium	-0.20	-0.26	-0.21	0.06	0.64	0.90	0.88	1.01	1.49	1.79	1.86	2.02	2.20	2.37	2.65	2.74
tetra-n-butylammonium	0.14	0.18	0.43	0.35	1.20	1.42	1.79	1.57	2.40	2.54	2.84	2.85	3.08	3.45	3.84	3.81
tetra-n-butylphosphonium	0.15	0.20	0.46	0.37	1.22	1.44	1.80	1.59	2.41	2.55	2.85	2.86	3.09	3.46	3.84	3.82
tetraoctylammonium	0.58	0.70	0.99	0.78	1.73	1.94	2.41	2.05	2.98	3.05	3.42	3.33	3.56	4.02	4.36	4.30
tetrapropylammonium	-0.01	0.00	0.24	0.22	1.01	1.24	1.55	1.41	2.17	2.35	2.61	2.67	2.89			

Table S3. The solubility, interaction forces and performance index of MB in IL

Cation	Anion	log(S)	E _{inter}	PI
1-(2-ethoxy-2-oxoethyl)-3-methyl-imidazolium	bf4	-8.2937505	-8.37173	0.1026072
1-(2-ethoxy-2-oxoethyl)-3-methyl-imidazolium	bis(fluorosulfonyl)imide	-4.31694034	-11.10391	0.314617581
1-(2-ethoxy-2-oxoethyl)-3-methyl-imidazolium	bis(trifluoromethylsulfonyl)methane	-5.41701619	-10.56979	0.252437552
1-(2-ethoxy-2-oxoethyl)-3-methyl-imidazolium	clo4	-7.64726345	-9.15016	0.136734282
1-(2-ethoxy-2-oxoethyl)-3-methyl-imidazolium	i	-9.63057732	-7.5961	0.055948071
1-(2-ethoxy-2-oxoethyl)-3-methyl-imidazolium	methylsulfate	-9.22269961	-8.56303	0.078256034
1-(2-ethoxy-2-oxoethyl)-3-methyl-imidazolium	octylsulfate	-8.24956508	-10.60238	0.141989715
1-(2-ethoxy-2-oxoethyl)-3-methyl-imidazolium	perfluorobutanesulfonate	-6.87907229	-9.74153	0.175616569
1-(2-ethoxy-2-oxoethyl)-3-methyl-imidazolium	pf6	-5.74342026	-9.36596	0.204796285
1-(2-ethoxy-2-oxoethyl)-3-methyl-imidazolium	sbf6	-4.51721594	-9.99745	0.267808687
1-(2-ethoxy-2-oxoethyl)-3-methyl-imidazolium	tetracyanoborate	-5.55052161	-11.10762	0.263266462
1-(2-ethoxy-2-oxoethyl)-3-methyl-imidazolium	tf2n	-5.35126358	-10.3814	0.249210861
1-(2-ethoxy-2-oxoethyl)-3-methyl-imidazolium	thiocyanate	-8.6873438	-9.40796	0.106834759
1-(2-ethoxy-2-oxoethyl)-3-methyl-imidazolium	tricyanomethane	-6.82043856	-10.63491	0.198992038
1-(2-ethoxy-2-oxoethyl)-3-methyl-imidazolium	trifluoromethane-sulfonate	-7.52060324	-9.476	0.147538168
1-(2-ethoxy-2-oxoethyl)-3-methyl-imidazolium	trifluoromethyltrifluoroborate	-5.7662453	-9.69151	0.213421086
1-(2-ethoxyethyl)-3-methyl-imidazolium	bf4	-9.22393477	-8.41697	0.076397651
1-(2-ethoxyethyl)-3-methyl-imidazolium	bis(fluorosulfonyl)imide	-6.45703264	-11.12149	0.225787849
1-(2-ethoxyethyl)-3-methyl-imidazolium	bis(trifluoromethylsulfonyl)methane	-7.26148818	-10.58919	0.180576812
1-(2-ethoxyethyl)-3-methyl-imidazolium	clo4	-8.81588171	-9.17957	0.099214718
1-(2-ethoxyethyl)-3-methyl-imidazolium	i	-10.13936758	-7.79825	0.044816825
1-(2-ethoxyethyl)-3-methyl-imidazolium	octylsulfate	-9.37765014	-10.46377	0.095979268
1-(2-ethoxyethyl)-3-methyl-imidazolium	perfluorobutanesulfonate	-8.39026347	-9.71649	0.121908794
1-(2-ethoxyethyl)-3-methyl-imidazolium	pf6	-7.45074371	-9.42953	0.148944484
1-(2-ethoxyethyl)-3-methyl-imidazolium	sbf6	-6.57602703	-10.06017	0.19427277
1-(2-ethoxyethyl)-3-methyl-imidazolium	tetracyanoborate	-7.25058069	-11.05102	0.19107973
1-(2-ethoxyethyl)-3-methyl-imidazolium	tf2n	-7.25501385	-10.41016	0.176929486
1-(2-ethoxyethyl)-3-methyl-imidazolium	tricyanomethane	-8.18581481	-10.50531	0.142810119
1-(2-ethoxyethyl)-3-methyl-imidazolium	trifluoromethane-sulfonate	-8.74960449	-9.42006	0.104915354
1-(2-ethoxyethyl)-3-methyl-imidazolium	trifluoromethyltrifluoroborate	-7.4714219	-9.71755	0.154227566
1-(2-hydroxyethyl)-3-methylimidazolium	bf4	-7.32406849	-6.62431	0.093007177
1-(2-hydroxyethyl)-3-methylimidazolium	bis(fluorosulfonyl)imide	0.25986478	-10.95694	0.497118899
1-(2-hydroxyethyl)-3-methylimidazolium	bis(trifluoromethylsulfonyl)methane	-2.26310144	-10.32789	0.36504788
1-(2-hydroxyethyl)-3-methylimidazolium	clo4	-5.9627271	-7.68754	0.15060543
1-(2-hydroxyethyl)-3-methylimidazolium	perfluorobutanesulfonate	-5.37429315	-9.3119	0.215498901
1-(2-hydroxyethyl)-3-methylimidazolium	pf6	-2.27865926	-8.57165	0.284808178
1-(2-hydroxyethyl)-3-methylimidazolium	sbf6	0.06521094	-9.56239	0.41041538
1-(2-hydroxyethyl)-3-methylimidazolium	tetracyanoborate	-2.87772046	-10.92079	0.3668728
1-(2-hydroxyethyl)-3-methylimidazolium	tf2n	-1.89763733	-10.10258	0.36832701
1-(2-hydroxyethyl)-3-methylimidazolium	tricyanomethane	-5.70678872	-10.19628	0.230204107
1-(2-hydroxyethyl)-3-methylimidazolium	trifluoromethane-sulfonate	-6.69918166	-8.691	0.156302223
1-(2-hydroxyethyl)-3-methylimidazolium	trifluoromethyltrifluoroborate	-2.97577926	-9.08463	0.28565438
1-(2-methoxyethyl)-3-methylimidazolium	bf4	-9.50414976	-7.64435	0.059660641
1-(2-methoxyethyl)-3-methylimidazolium	bis(fluorosulfonyl)imide	-6.27358648	-10.91741	0.228060292
1-(2-methoxyethyl)-3-methylimidazolium	bis(trifluoromethylsulfonyl)methane	-7.05763265	-10.39148	0.184090938
1-(2-methoxyethyl)-3-methylimidazolium	clo4	-9.07044403	-8.48485	0.081744445
1-(2-methoxyethyl)-3-methylimidazolium	i	-10.18396918	-6.61974	0.03431144
1-(2-methoxyethyl)-3-methylimidazolium	octylsulfate	-9.29121257	-10.31448	0.097508833
1-(2-methoxyethyl)-3-methylimidazolium	perfluorobutanesulfonate	-8.27957116	-9.46246	0.121495541
1-(2-methoxyethyl)-3-methylimidazolium	pf6	-7.585241	-8.95766	0.13485379
1-(2-methoxyethyl)-3-methylimidazolium	sbf6	-6.48042346	-9.7359	0.189532763
1-(2-methoxyethyl)-3-methylimidazolium	tetracyanoborate	-7.16809362	-10.84684	0.18996647
1-(2-methoxyethyl)-3-methylimidazolium	tf2n	-7.04762028	-10.19435	0.179985217
1-(2-methoxyethyl)-3-methylimidazolium	tricyanomethane	-8.253878	-10.19683	0.134899479
1-(2-methoxyethyl)-3-methylimidazolium	trifluoromethane-sulfonate	-8.82849183	-8.99574	0.096166603
1-(2-methoxyethyl)-3-methylimidazolium	trifluoromethyltrifluoroborate	-7.51539025	-9.33159	0.144746309
1-(3-cyanopropyl)-3-methylimidazolium	bf4	-10.24662483	-6.38195	0.031213104
1-(3-cyanopropyl)-3-methylimidazolium	bis(fluorosulfonyl)imide	-6.21360251	-10.51261	0.219692127
1-(3-cyanopropyl)-3-methylimidazolium	bis(trifluoromethylsulfonyl)methane	-6.72839665	-10.01959	0.187683626
1-(3-cyanopropyl)-3-methylimidazolium	clo4	-9.81740135	-7.29979	0.048393433
1-(3-cyanopropyl)-3-methylimidazolium	i	-10.30598721	-4.37828	0.015336836

1-(3-cyanopropyl)-3-methylimidazolium	octylsulfate	-8.90210632	-10.08105	0.109020152
1-(3-cyanopropyl)-3-methylimidazolium	perfluorobutanesulfonate	-7.93069454	-9.08087	0.126243305
1-(3-cyanopropyl)-3-methylimidazolium	pf6	-8.11971295	-8.29142	0.106195113
1-(3-cyanopropyl)-3-methylimidazolium	sbf6	-6.51778855	-9.26843	0.176396799
1-(3-cyanopropyl)-3-methylimidazolium	tetracyanoborate	-7.15789725	-10.45902	0.181749275
1-(3-cyanopropyl)-3-methylimidazolium	tf2n	-6.74456924	-9.80368	0.18186485
1-(3-cyanopropyl)-3-methylimidazolium	thiocyanate	-10.30128714	-6.96409	0.034446269
1-(3-cyanopropyl)-3-methylimidazolium	tricyanomethane	-8.46975264	-9.68105	0.118546243
1-(3-cyanopropyl)-3-methylimidazolium	trifluoromethane-sulfonate	-8.9992972	-8.3677	0.082244669
1-(3-cyanopropyl)-3-methylimidazolium	trifluoromethyltrifluoroborate	-7.75727171	-8.78938	0.126157747
1,2,3-trimethylimidazolium	bf4	-10.84292603	-5.77117	0.016729856
1,2,3-trimethylimidazolium	bis(fluorosulfonyl)imide	-8.4405123	-10.40959	0.131357683
1,2,3-trimethylimidazolium	bis(trifluoromethylsulfonyl)methane	-8.68878796	-9.92186	0.114497557
1,2,3-trimethylimidazolium	clo4	-10.705722	-6.76931	0.024437328
1,2,3-trimethylimidazolium	i	-10.31385354	-3.95434	0.012158996
1,2,3-trimethylimidazolium	octylsulfate	-10.07811831	-9.82378	0.063485968
1,2,3-trimethylimidazolium	perfluorobutanesulfonate	-9.55207829	-8.84279	0.071531806
1,2,3-trimethylimidazolium	pf6	-9.88279304	-7.83598	0.051858231
1,2,3-trimethylimidazolium	sbf6	-8.77756326	-8.99191	0.097727081
1,2,3-trimethylimidazolium	tetracyanoborate	-8.97720173	-10.27365	0.108878128
1,2,3-trimethylimidazolium	tf2n	-8.79645796	-9.6984	0.107369056
1,2,3-trimethylimidazolium	tricyanomethane	-9.8221204	-9.27781	0.067350728
1,2,3-trimethylimidazolium	trifluoromethane-sulfonate	-10.1552844	-7.91515	0.045344502
1,2,3-trimethylimidazolium	trifluoromethyltrifluoroborate	-9.53720478	-8.39623	0.067085687
1,2-dimethyl-3-(phenylmethyl)imidazolium	2-(2-methoxyethoxy)ethylsulfate	-10.1914151	-9.18011	0.054366072
1,2-dimethyl-3-(phenylmethyl)imidazolium	bf4	-9.74840409	-8.77914	0.064807257
1,2-dimethyl-3-(phenylmethyl)imidazolium	bis(fluorosulfonyl)imide	-7.59218412	-11.33167	0.182582733
1,2-dimethyl-3-(phenylmethyl)imidazolium	bis(trifluoromethylsulfonyl)methane	-8.11180745	-10.78161	0.15058858
1,2-dimethyl-3-(phenylmethyl)imidazolium	clo4	-9.47472319	-9.50051	0.081353293
1,2-dimethyl-3-(phenylmethyl)imidazolium	ethylsulfate	-10.08412137	-9.13046	0.057447871
1,2-dimethyl-3-(phenylmethyl)imidazolium	i	-10.35469053	-8.06109	0.041074935
1,2-dimethyl-3-(phenylmethyl)imidazolium	methylsulfate	-10.19797094	-8.72696	0.050589955
1,2-dimethyl-3-(phenylmethyl)imidazolium	octylsulfate	-9.67848508	-10.58079	0.085548555
1,2-dimethyl-3-(phenylmethyl)imidazolium	perfluorobutanesulfonate	-8.94848741	-9.93122	0.105245731
1,2-dimethyl-3-(phenylmethyl)imidazolium	pf6	-8.38293461	-9.79709	0.123492564
1,2-dimethyl-3-(phenylmethyl)imidazolium	sbf6	-7.65140024	-10.39024	0.16129832
1,2-dimethyl-3-(phenylmethyl)imidazolium	tetracyanoborate	-8.1955338	-11.17366	0.154021938
1,2-dimethyl-3-(phenylmethyl)imidazolium	tf2n	-8.17499787	-10.61687	0.145176108
1,2-dimethyl-3-(phenylmethyl)imidazolium	tricyanomethane	-8.84504306	-10.63874	0.119080396
1,2-dimethyl-3-(phenylmethyl)imidazolium	trifluoromethane-sulfonate	-9.22372405	-9.68156	0.092177436
1,2-dimethyl-3-(phenylmethyl)imidazolium	trifluoromethyltrifluoroborate	-8.29936041	-10.04607	0.130657175
1,3-bis(3-cyanopropyl)imidazolium	2-(2-methoxyethoxy)ethylsulfate	-9.67826959	-8.32794	0.062304154
1,3-bis(3-cyanopropyl)imidazolium	bf4	-9.9555242	-7.0261	0.042653038
1,3-bis(3-cyanopropyl)imidazolium	bis(fluorosulfonyl)imide	-6.23754422	-10.41823	0.216248911
1,3-bis(3-cyanopropyl)imidazolium	bis(trifluoromethylsulfonyl)methane	-6.59291012	-10.00014	0.192155465
1,3-bis(3-cyanopropyl)imidazolium	clo4	-9.51196359	-7.78289	0.061001655
1,3-bis(3-cyanopropyl)imidazolium	ethylsulfate	-9.82495457	-7.97006	0.054667127
1,3-bis(3-cyanopropyl)imidazolium	i	-10.37182758	-5.39415	0.021836362
1,3-bis(3-cyanopropyl)imidazolium	methylsulfate	-10.11798191	-7.26172	0.040953348
1,3-bis(3-cyanopropyl)imidazolium	octylsulfate	-8.61765272	-10.0706	0.119349123
1,3-bis(3-cyanopropyl)imidazolium	perfluorobutanesulfonate	-7.68298122	-9.17173	0.136000962
1,3-bis(3-cyanopropyl)imidazolium	pf6	-7.86849629	-8.5608	0.118418776
1,3-bis(3-cyanopropyl)imidazolium	sbf6	-6.49641908	-9.36817	0.17963444
1,3-bis(3-cyanopropyl)imidazolium	tetracyanoborate	-7.04439152	-10.36938	0.184095001
1,3-bis(3-cyanopropyl)imidazolium	tf2n	-6.60886997	-9.80612	0.186751252
1,3-bis(3-cyanopropyl)imidazolium	thiocyanate	-10.07997042	-7.56211	0.044376949
1,3-bis(3-cyanopropyl)imidazolium	tricyanomethane	-8.2494007	-9.70291	0.126628015
1,3-bis(3-cyanopropyl)imidazolium	trifluoromethane-sulfonate	-8.74946406	-8.58696	0.09265811
1,3-bis(3-cyanopropyl)imidazolium	trifluoromethyltrifluoroborate	-7.57975992	-8.96203	0.135115275
1,3-bis(cyanomethyl)imidazolium	bf4	-3.99454168	-9.15225	0.255410193
1,3-bis(cyanomethyl)imidazolium	bis(fluorosulfonyl)imide	3.14058449	-11.4889	0.653063387
1,3-bis(cyanomethyl)imidazolium	bis(trifluoromethylsulfonyl)methane	-0.19728488	-11.06	0.484055213
1,3-bis(cyanomethyl)imidazolium	clo4	-2.51417138	-10.05753	0.343536467

1,3-bis(cyanomethyl)imidazolium	dicyanamide	-4.6856612	-11.48912	0.312315884
1,3-bis(cyanomethyl)imidazolium	i	-10.10070497	-8.5587	0.05215295
1,3-bis(cyanomethyl)imidazolium	methylsulfate	-7.54681064	-9.83788	0.154033477
1,3-bis(cyanomethyl)imidazolium	octylsulfate	-4.89254822	-11.4843	0.303148852
1,3-bis(cyanomethyl)imidazolium	perfluorobutanesulfonate	-2.54636381	-10.32384	0.354092962
1,3-bis(cyanomethyl)imidazolium	pf6	3.18943395	-9.40705	0.506884879
1,3-bis(cyanomethyl)imidazolium	sbf6	4.29465882	-10.12759	0.599213175
1,3-bis(cyanomethyl)imidazolium	tetracyanoborate	0.27888775	-11.99232	0.557390922
1,3-bis(cyanomethyl)imidazolium	tf2n	-0.08710034	-10.83228	0.475938964
1,3-bis(cyanomethyl)imidazolium	thiocyanate	-5.61770658	-11.37034	0.268224363
1,3-bis(cyanomethyl)imidazolium	tricyanomethane	-1.74986099	-11.92806	0.461149099
1,3-bis(cyanomethyl)imidazolium	trifluoromethane-sulfonate	-3.29470863	-10.45913	0.331122267
1,3-bis(cyanomethyl)imidazolium	trifluoromethyltrifluoroborate	1.67535592	-10.06846	0.498260176
1,3-diethoxyimidazolium	bf4	-7.75564601	-8.39442	0.118536351
1,3-diethoxyimidazolium	bis(fluorosulfonyl)imide	-3.73091051	-11.10882	0.339254191
1,3-diethoxyimidazolium	bis(trifluoromethylsulfonyl)methane	-5.24998187	-10.57749	0.259224348
1,3-diethoxyimidazolium	clo4	-7.00300178	-9.20402	0.158890481
1,3-diethoxyimidazolium	i	-9.44016446	-7.89458	0.064146835
1,3-diethoxyimidazolium	octylsulfate	-8.63831363	-10.42244	0.123951959
1,3-diethoxyimidazolium	perfluorobutanesulfonate	-7.09222347	-9.70095	0.167183517
1,3-diethoxyimidazolium	pf6	-5.05768723	-9.38274	0.228301735
1,3-diethoxyimidazolium	sbf6	-3.89869815	-10.01054	0.290865163
1,3-diethoxyimidazolium	tetracyanoborate	-5.34046827	-11.05473	0.270401037
1,3-diethoxyimidazolium	tf2n	-5.0940378	-10.39855	0.259611067
1,3-diethoxyimidazolium	thiocyanate	-8.58762839	-9.51607	0.1118681
1,3-diethoxyimidazolium	tricyanomethane	-6.81068093	-10.53154	0.196907235
1,3-diethoxyimidazolium	trifluoromethane-sulfonate	-7.54933617	-9.41154	0.145245955
1,3-diethoxyimidazolium	trifluoromethyltrifluoroborate	-5.38277288	-9.68106	0.226534216
1,3-diethylimidazolium	bf4	-9.13906502	-7.7084	0.069736441
1,3-diethylimidazolium	bis(fluorosulfonyl)imide	-5.96865178	-10.87151	0.239232352
1,3-diethylimidazolium	bis(trifluoromethylsulfonyl)methane	-6.90788229	-10.35278	0.188926096
1,3-diethylimidazolium	clo4	-8.67476598	-8.56118	0.09449572
1,3-diethylimidazolium	i	-10.04368384	-6.90235	0.03961389
1,3-diethylimidazolium	octylsulfate	-9.33326264	-10.2347	0.094958005
1,3-diethylimidazolium	perfluorobutanesulfonate	-8.24182163	-9.40971	0.12187385
1,3-diethylimidazolium	pf6	-7.15825745	-8.92809	0.147670192
1,3-diethylimidazolium	sbf6	-6.11653613	-9.68083	0.200859675
1,3-diethylimidazolium	tetracyanoborate	-6.94692222	-10.79988	0.197832124
1,3-diethylimidazolium	tf2n	-6.864913	-10.15579	0.185909035
1,3-diethylimidazolium	tricyanomethane	-8.0727865	-10.15367	0.140903023
1,3-diethylimidazolium	trifluoromethane-sulfonate	-8.68202752	-8.96708	0.100384017
1,3-diethylimidazolium	trifluoromethyltrifluoroborate	-7.20260604	-9.2858	0.154161292
1,3-dihexyl-imidazolium	2-(2-methoxyethoxy)ethylsulfate	-9.64216905	-10.27951	0.083812474
1,3-dihexyl-imidazolium	bf4	-8.05237165	-10.46854	0.147336342
1,3-dihexyl-imidazolium	bis(fluorosulfonyl)imide	-6.07662901	-11.88539	0.262598246
1,3-dihexyl-imidazolium	bis(trifluoromethylsulfonyl)methane	-7.17776068	-11.40512	0.20194585
1,3-dihexyl-imidazolium	clo4	-7.65360659	-11.00196	0.17339081
1,3-dihexyl-imidazolium	dicyanamide	-8.88971362	-10.91897	0.121253731
1,3-dihexyl-imidazolium	ethylsulfate	-9.41985473	-10.43275	0.093988374
1,3-dihexyl-imidazolium	hso4	-7.19183677	-10.38081	0.178709178
1,3-dihexyl-imidazolium	i	-9.36482905	-10.67687	0.098991
1,3-dihexyl-imidazolium	methylsulfate	-9.35002824	-10.33338	0.095499441
1,3-dihexyl-imidazolium	octylsulfate	-9.50154024	-11.08537	0.098122241
1,3-dihexyl-imidazolium	perfluorobutanesulfonate	-8.38025289	-10.74936	0.139268257
1,3-dihexyl-imidazolium	pf6	-6.48389945	-10.90562	0.219172266
1,3-dihexyl-imidazolium	sbf6	-5.99462062	-11.21105	0.24760318
1,3-dihexyl-imidazolium	tetracyanoborate	-6.9295741	-11.78725	0.221570039
1,3-dihexyl-imidazolium	tf2n	-7.10176276	-11.28886	0.202606633
1,3-dihexyl-imidazolium	thiocyanate	-8.65015311	-11.39497	0.138267648
1,3-dihexyl-imidazolium	tricyanomethane	-7.77896056	-11.47575	0.177372102
1,3-dihexyl-imidazolium	trifluoromethane-sulfonate	-8.37603468	-10.80407	0.140339117
1,3-dihexyl-imidazolium	trifluoromethyltrifluoroborate	-6.85489494	-11.01757	0.206695328
1,3-dimethoxyimidazolium	bf4	-8.69626312	-6.94296	0.069632355

1,3-dimethoxyimidazolium	bis(fluorosulfonyl)imide	-3.22902645	-10.93953	0.353287314
1,3-dimethoxyimidazolium	bis(trifluoromethylsulfonyl)methane	-4.88124947	-10.32381	0.265308811
1,3-dimethoxyimidazolium	clo4	-7.84086218	-8.03601	0.109257496
1,3-dimethoxyimidazolium	i	-9.70250805	-5.29665	0.0306171794
1,3-dimethoxyimidazolium	octylsulfate	-8.41393154	-10.2951	0.130512218
1,3-dimethoxyimidazolium	perfluorobutanesulfonate	-6.86377205	-9.3217	0.166229138
1,3-dimethoxyimidazolium	pf6	-5.4779132	-8.64004	0.19176095
1,3-dimethoxyimidazolium	sbf6	-3.64519158	-9.55529	0.282427561
1,3-dimethoxyimidazolium	tetracyanoborate	-5.21873338	-10.89592	0.270459294
1,3-dimethoxyimidazolium	tf2n	-4.75257116	-10.10598	0.262873977
1,3-dimethoxyimidazolium	thiocyanate	-9.2868636	-7.92762	0.068615307
1,3-dimethoxyimidazolium	tricyanomethane	-6.96331422	-10.21658	0.183654405
1,3-dimethoxyimidazolium	trifluoromethane-sulfonate	-7.73113897	-8.76944	0.12657199
1,3-dimethoxyimidazolium	trifluoromethyltrifluoroborate	-5.48435613	-9.11606	0.205931479
1,3-methyl-imidazolium	bf4	-10.21098723	-5.46529	0.024753562
1,3-methyl-imidazolium	bis(fluorosulfonyl)imide	-5.99309208	-10.62367	0.231357834
1,3-methyl-imidazolium	bis(trifluoromethylsulfonyl)methane	-6.81090383	-10.03828	0.185111768
1,3-methyl-imidazolium	clo4	-9.82750088	-6.58314	0.041263348
1,3-methyl-imidazolium	octylsulfate	-9.25660759	-10.04758	0.095535553
1,3-methyl-imidazolium	perfluorobutanesulfonate	-8.21989248	-8.94537	0.114614313
1,3-methyl-imidazolium	pf6	-8.23111214	-7.8438	0.095344325
1,3-methyl-imidazolium	sbf6	-6.36816335	-9.08882	0.176670317
1,3-methyl-imidazolium	tetracyanoborate	-7.16809965	-10.56775	0.183769119
1,3-methyl-imidazolium	tf2n	-6.81147198	-9.79511	0.17928088
1,3-methyl-imidazolium	tricyanomethane	-8.63167324	-9.62054	0.111957634
1,3-methyl-imidazolium	trifluoromethane-sulfonate	-9.18794483	-8.03385	0.072597587
1,3-methyl-imidazolium	trifluoromethyltrifluoroborate	-7.82745201	-8.49899	0.118457364
1-benzyl-3-methyl-imidazolium	2-(2-methoxyethoxy)ethylsulfate	-9.55865305	-9.39335	0.077322285
1-benzyl-3-methyl-imidazolium	bf4	-8.64400544	-9.04857	0.102825674
1-benzyl-3-methyl-imidazolium	bis(fluorosulfonyl)imide	-5.28472793	-11.55297	0.288218926
1-benzyl-3-methyl-imidazolium	bis(trifluoromethylsulfonyl)methane	-6.31209971	-10.95113	0.227373006
1-benzyl-3-methyl-imidazolium	clo4	-8.12262628	-9.7928	0.132665704
1-benzyl-3-methyl-imidazolium	ethylsulfate	-9.42576448	-9.41409	0.082028817
1-benzyl-3-methyl-imidazolium	i	-9.84416537	-8.26492	0.056962543
1-benzyl-3-methyl-imidazolium	methylsulfate	-9.56633311	-9.012	0.072925888
1-benzyl-3-methyl-imidazolium	octylsulfate	-8.86484238	-10.81362	0.12077647
1-benzyl-3-methyl-imidazolium	perfluorobutanesulfonate	-7.63260053	-10.11618	0.156536308
1-benzyl-3-methyl-imidazolium	pf6	-6.35594665	-10.02522	0.20145611
1-benzyl-3-methyl-imidazolium	sbf6	-5.294335	-10.59252	0.257951637
1-benzyl-3-methyl-imidazolium	tetracyanoborate	-6.40742426	-11.43976	0.236074705
1-benzyl-3-methyl-imidazolium	tf2n	-6.26738606	-10.77972	0.224669012
1-benzyl-3-methyl-imidazolium	thiocyanate	-9.08841259	-9.9271	0.100131172
1-benzyl-3-methyl-imidazolium	tricyanomethane	-7.49717693	-10.97897	0.179366494
1-benzyl-3-methyl-imidazolium	trifluoromethane-sulfonate	-8.0687881	-9.95577	0.13750135
1-benzyl-3-methyl-imidazolium	trifluoromethyltrifluoroborate	-6.42231441	-10.28162	0.205624838
1-butyl-1-methylpiperidinium	bf4	-10.55818992	-8.06109	0.035516806
1-butyl-1-methylpiperidinium	bis(fluorosulfonyl)imide	-9.10356295	-10.77809	0.110682317
1-butyl-1-methylpiperidinium	bis(trifluoromethylsulfonyl)methane	-9.46373065	-10.29895	0.090780476
1-butyl-1-methylpiperidinium	clo4	-10.41424499	-8.82442	0.044667543
1-butyl-1-methylpiperidinium	i	-10.82539002	-7.61937	0.026058358
1-butyl-1-methylpiperidinium	octylsulfate	-10.5134911	-10.02354	0.04923372
1-butyl-1-methylpiperidinium	perfluorobutanesulfonate	-10.11018409	-9.37891	0.058660468
1-butyl-1-methylpiperidinium	pf6	-9.73263139	-9.10108	0.06853173
1-butyl-1-methylpiperidinium	sbf6	-9.24810083	-9.73748	0.092015693
1-butyl-1-methylpiperidinium	tetracyanoborate	-9.27880895	-10.64519	0.102018748
1-butyl-1-methylpiperidinium	tf2n	-9.58648905	-10.12888	0.084297821
1-butyl-1-methylpiperidinium	tricyanomethane	-9.72190366	-9.99928	0.077962812
1-butyl-1-methylpiperidinium	trifluoromethane-sulfonate	-10.20366053	-8.98905	0.05246992
1-butyl-1-methylpiperidinium	trifluoromethyltrifluoroborate	-9.64314063	-9.35314	0.074060123
1-butyl-1-methyl-pyrrolidinium	bf4	-10.67863257	-7.73458	0.030403364
1-butyl-1-methyl-pyrrolidinium	bis(fluorosulfonyl)imide	-9.01897456	-10.70469	0.11309397
1-butyl-1-methyl-pyrrolidinium	bis(trifluoromethylsulfonyl)methane	-9.3656188	-10.22017	0.09356985
1-butyl-1-methyl-pyrrolidinium	clo4	-10.5242031	-8.53632	0.039447047

1-butyl-1-methyl-pyrrolidinium	i	-10.87836856	-7.09782	0.022302029
1-butyl-1-methyl-pyrrolidinium	octylsulfate	-10.45679883	-9.98148	0.051029719
1-butyl-1-methyl-pyrrolidinium	perfluorobutanesulfonate	-10.03605067	-9.27264	0.060230867
1-butyl-1-methyl-pyrrolidinium	pf6	-9.77592203	-8.9043	0.065196108
1-butyl-1-methyl-pyrrolidinium	sbf6	-9.19904119	-9.6048	0.092074519
1-butyl-1-methyl-pyrrolidinium	tetracyanoborate	-9.2106043	-10.57645	0.103854275
1-butyl-1-methyl-pyrrolidinium	tf2n	-9.48896524	-10.04039	0.086923465
1-butyl-1-methyl-pyrrolidinium	tricyanomethane	-9.70893398	-9.88957	0.077319602
1-butyl-1-methyl-pyrrolidinium	trifluoromethane-sulfonate	-10.21050358	-8.81313	0.050880441
1-butyl-1-methyl-pyrrolidinium	trifluoromethyltrifluoroborate	-9.63880127	-9.19203	0.072512181
1-butyl-2,3-dimethyl-imidazolium	bf4	-10.01134419	-8.3903	0.053331529
1-butyl-2,3-dimethyl-imidazolium	bis(fluorosulfonyl)imide	-8.27733343	-10.9975	0.147595913
1-butyl-2,3-dimethyl-imidazolium	bis(trifluoromethylsulfonyl)methane	-8.77578782	-10.48584	0.119585637
1-butyl-2,3-dimethyl-imidazolium	clo4	-9.80689482	-9.13919	0.066507916
1-butyl-2,3-dimethyl-imidazolium	i	-10.54091066	-7.89791	0.034970869
1-butyl-2,3-dimethyl-imidazolium	octylsulfate	-10.13309925	-10.24454	0.064962414
1-butyl-2,3-dimethyl-imidazolium	perfluorobutanesulfonate	-9.54769745	-9.59303	0.079875039
1-butyl-2,3-dimethyl-imidazolium	pf6	-8.92764582	-9.37887	0.098335638
1-butyl-2,3-dimethyl-imidazolium	sbf6	-8.35734913	-9.98558	0.127525282
1-butyl-2,3-dimethyl-imidazolium	tetracyanoborate	-8.70623323	-10.87222	0.128049775
1-butyl-2,3-dimethyl-imidazolium	tf2n	-8.85842138	-10.31805	0.113997084
1-butyl-2,3-dimethyl-imidazolium	tricyanomethane	-9.26497996	-10.28006	0.098082546
1-butyl-2,3-dimethyl-imidazolium	trifluoromethane-sulfonate	-9.679931	-9.27694	0.072044345
1-butyl-2,3-dimethyl-imidazolium	trifluoromethyltrifluoroborate	-8.88632467	-9.62587	0.103197448
1-butyl-3-methyl-imidazolium	bf4	-8.79200014	-8.48354	0.089889079
1-butyl-3-methyl-imidazolium	bis(fluorosulfonyl)imide	-5.74653785	-11.1352	0.255883725
1-butyl-3-methyl-imidazolium	bis(trifluoromethylsulfonyl)methane	-6.78827721	-10.59259	0.199246526
1-butyl-3-methyl-imidazolium	clo4	-8.31476266	-9.26359	0.116964582
1-butyl-3-methyl-imidazolium	i	-9.97974532	-7.96311	0.050444254
1-butyl-3-methyl-imidazolium	octylsulfate	-9.26071207	-10.44755	0.10030378
1-butyl-3-methyl-imidazolium	perfluorobutanesulfonate	-8.10887532	-9.71335	0.131743689
1-butyl-3-methyl-imidazolium	pf6	-6.74755058	-9.45193	0.173248035
1-butyl-3-methyl-imidazolium	sbf6	-5.81591904	-10.06593	0.222391586
1-butyl-3-methyl-imidazolium	tetracyanoborate	-6.72377131	-11.07711	0.213559188
1-butyl-3-methyl-imidazolium	tf2n	-6.73735332	-10.41259	0.196883784
1-butyl-3-methyl-imidazolium	tricyanomethane	-7.80083871	-10.54732	0.1585864
1-butyl-3-methyl-imidazolium	trifluoromethane-sulfonate	-8.44323402	-9.44703	0.115690227
1-butyl-3-methyl-imidazolium	trifluoromethyltrifluoroborate	-6.87397029	-9.73236	0.175580121
1-butyl-3-methyl-pyridinium	bf4	-9.26158512	-8.62917	0.077914697
1-butyl-3-methyl-pyridinium	bis(fluorosulfonyl)imide	-7.15125049	-11.09269	0.196127259
1-butyl-3-methyl-pyridinium	bis(trifluoromethylsulfonyl)methane	-7.88562573	-10.58106	0.155907283
1-butyl-3-methyl-pyridinium	clo4	-8.94345188	-9.37033	0.097687473
1-butyl-3-methyl-pyridinium	i	-10.17044897	-8.31415	0.048129421
1-butyl-3-methyl-pyridinium	octylsulfate	-9.72069632	-10.36364	0.081694436
1-butyl-3-methyl-pyridinium	perfluorobutanesulfonate	-8.87701421	-9.71578	0.104789762
1-butyl-3-methyl-pyridinium	pf6	-7.8523998	-9.51613	0.137014526
1-butyl-3-methyl-pyridinium	sbf6	-7.20430421	-10.0882	0.171784582
1-butyl-3-methyl-pyridinium	tetracyanoborate	-7.82443892	-10.9996	0.166301494
1-butyl-3-methyl-pyridinium	tf2n	-7.90291193	-10.41355	0.152092126
1-butyl-3-methyl-pyridinium	tricyanomethane	-8.56441549	-10.46297	0.127428448
1-butyl-3-methyl-pyridinium	trifluoromethane-sulfonate	-9.03586115	-9.46189	0.095814262
1-butyl-3-methyl-pyridinium	trifluoromethyltrifluoroborate	-7.91414105	-9.75995	0.139455751
1-butyl-pyridinium	bf4	-9.12474832	-8.44336	0.079615346
1-butyl-pyridinium	bis(fluorosulfonyl)imide	-6.38629729	-11.13423	0.229074676
1-butyl-pyridinium	bis(trifluoromethylsulfonyl)methane	-7.21356981	-10.57981	0.182252823
1-butyl-pyridinium	clo4	-8.71963095	-9.23632	0.103196518
1-butyl-pyridinium	i	-10.17523764	-7.88164	0.044546272
1-butyl-pyridinium	octylsulfate	-9.31874975	-10.47649	0.098410889
1-butyl-pyridinium	perfluorobutanesulfonate	-8.31827124	-9.69752	0.124121347
1-butyl-pyridinium	pf6	-7.33623331	-9.41878	0.152583756
1-butyl-pyridinium	sbf6	-6.46794682	-10.04258	0.19779869
1-butyl-pyridinium	tetracyanoborate	-7.21416118	-11.09028	0.193453137
1-butyl-pyridinium	tf2n	-7.21816854	-10.39725	0.178061969

1-butyl-pyridinium	tricyanomethane	-8.11270516	-10.56437	0.146700199
1-butyl-pyridinium	trifluoromethane-sulfonate	-8.6340845	-9.43303	0.10901169
1-butyl-pyridinium	trifluoromethyltrifluoroborate	-7.33553806	-9.70737	0.158786513
1-decyl-3-methyl-imidazolium	2-(2-methoxyethoxy)ethylsulfate	-9.54012065	-10.24711	0.087315804
1-decyl-3-methyl-imidazolium	bf4	-7.95635869	-10.39148	0.149629434
1-decyl-3-methyl-imidazolium	bis(fluorosulfonyl)imide	-5.86378532	-11.86913	0.271803524
1-decyl-3-methyl-imidazolium	bis(trifluoromethylsulfonyl)methane	-6.95191683	-11.37084	0.210893266
1-decyl-3-methyl-imidazolium	clo4	-7.55060056	-10.93714	0.176316314
1-decyl-3-methyl-imidazolium	dicyanamide	-8.6985201	-10.93521	0.129305397
1-decyl-3-methyl-imidazolium	ethylsulfate	-9.2967753	-10.41563	0.098524258
1-decyl-3-methyl-imidazolium	hso4	-7.16570122	-10.32739	0.17852324
1-decyl-3-methyl-imidazolium	i	-9.33291399	-10.56973	0.098976882
1-decyl-3-methyl-imidazolium	methylsulfate	-9.24538587	-10.29786	0.099043743
1-decyl-3-methyl-imidazolium	octylsulfate	-9.31097301	-11.11107	0.10636545
1-decyl-3-methyl-imidazolium	perfluorobutanesulfonate	-8.14398782	-10.70739	0.147990049
1-decyl-3-methyl-imidazolium	pf6	-6.32399314	-10.83749	0.223907997
1-decyl-3-methyl-imidazolium	sbf6	-5.7908759	-11.15852	0.25469734
1-decyl-3-methyl-imidazolium	tetracyanoborate	-6.71772188	-11.79547	0.231293358
1-decyl-3-methyl-imidazolium	tf2n	-6.88286848	-11.24812	0.210970376
1-decyl-3-methyl-imidazolium	thiocyanate	-8.52113215	-11.354	0.143180551
1-decyl-3-methyl-imidazolium	tricyanomethane	-7.57460068	-11.49015	0.186549252
1-decyl-3-methyl-imidazolium	trifluoromethane-sulfonate	-8.17533295	-10.76619	0.147766511
1-decyl-3-methyl-imidazolium	trifluoromethyltrifluoroborate	-6.65379622	-10.96251	0.213645819
1-dodecyl-3-methyl-imidazolium	2-(2-methoxyethoxy)ethylsulfate	-9.52220963	-10.50417	0.090833523
1-dodecyl-3-methyl-imidazolium	bf4	-7.91503203	-10.71573	0.157267427
1-dodecyl-3-methyl-imidazolium	bis(fluorosulfonyl)imide	-5.98704418	-12.02434	0.27052915
1-dodecyl-3-methyl-imidazolium	bis(trifluoromethylsulfonyl)methane	-7.05235113	-11.54623	0.210567072
1-dodecyl-3-methyl-imidazolium	clo4	-7.52736252	-11.2177	0.183019985
1-dodecyl-3-methyl-imidazolium	dicyanamide	-8.70477607	-11.18048	0.132711304
1-dodecyl-3-methyl-imidazolium	ethylsulfate	-9.27941197	-10.69099	0.102554107
1-dodecyl-3-methyl-imidazolium	hso4	-7.05341339	-10.6653	0.190481477
1-dodecyl-3-methyl-imidazolium	i	-9.24975927	-10.94723	0.106897768
1-dodecyl-3-methyl-imidazolium	methylsulfate	-9.2065334	-10.60564	0.10438041
1-dodecyl-3-methyl-imidazolium	octylsulfate	-9.3607038	-11.26916	0.106158518
1-dodecyl-3-methyl-imidazolium	perfluorobutanesulfonate	-8.21182936	-10.92837	0.149102143
1-dodecyl-3-methyl-imidazolium	pf6	-6.37678708	-11.09995	0.228583191
1-dodecyl-3-methyl-imidazolium	sbf6	-5.9008964	-11.38011	0.256328763
1-dodecyl-3-methyl-imidazolium	tetracyanoborate	-6.80928729	-11.94539	0.230757292
1-dodecyl-3-methyl-imidazolium	tf2n	-6.98185478	-11.43477	0.211082411
1-dodecyl-3-methyl-imidazolium	thiocyanate	-8.48771968	-11.62105	0.14887547
1-dodecyl-3-methyl-imidazolium	tricyanomethane	-7.62999926	-11.67108	0.187758735
1-dodecyl-3-methyl-imidazolium	trifluoromethane-sulfonate	-8.21178773	-11.02113	0.150705241
1-dodecyl-3-methyl-imidazolium	trifluoromethyltrifluoroborate	-6.72692261	-11.20483	0.216530854
1-ethyl-1-methyl-pyrrolidinium	bf4	-11.15988967	-5.81225	0.011644622
1-ethyl-1-methyl-pyrrolidinium	bis(fluorosulfonyl)imide	-9.17466772	-10.17667	0.100184287
1-ethyl-1-methyl-pyrrolidinium	bis(trifluoromethylsulfonyl)methane	-9.33301083	-9.76003	0.089292325
1-ethyl-1-methyl-pyrrolidinium	clo4	-11.05484503	-6.77829	0.017070973
1-ethyl-1-methyl-pyrrolidinium	i	-10.68284514	-4.44815	0.012003003
1-ethyl-1-methyl-pyrrolidinium	octylsulfate	-10.44418572	-9.63227	0.049150688
1-ethyl-1-methyl-pyrrolidinium	perfluorobutanesulfonate	-10.06732833	-8.68188	0.054187715
1-ethyl-1-methyl-pyrrolidinium	pf6	-10.4267753	-7.66729	0.036436886
1-ethyl-1-methyl-pyrrolidinium	sbf6	-9.56223627	-8.76317	0.070351237
1-ethyl-1-methyl-pyrrolidinium	tetracyanoborate	-9.37414388	-10.05872	0.091351015
1-ethyl-1-methyl-pyrrolidinium	tf2n	-9.46796006	-9.53982	0.082028975
1-ethyl-1-methyl-pyrrolidinium	tricyanomethane	-10.05107725	-9.0776	0.058065375
1-ethyl-1-methyl-pyrrolidinium	trifluoromethane-sulfonate	-10.53565873	-7.74917	0.034178751
1-ethyl-1-methyl-pyrrolidinium	trifluoromethyltrifluoroborate	-10.12006219	-8.18178	0.048476569
1-ethyl-2,3-dimethyl-imidazolium	bf4	-10.49191427	-6.88747	0.029733972
1-ethyl-2,3-dimethyl-imidazolium	bis(fluorosulfonyl)imide	-8.37139877	-10.5693	0.13665029
1-ethyl-2,3-dimethyl-imidazolium	bis(trifluoromethylsulfonyl)methane	-8.7213901	-10.08985	0.115814801
1-ethyl-2,3-dimethyl-imidazolium	clo4	-10.30411811	-7.77651	0.040362051
1-ethyl-2,3-dimethyl-imidazolium	i	-10.50444319	-5.70352	0.021871768
1-ethyl-2,3-dimethyl-imidazolium	octylsulfate	-10.1000302	-9.941	0.063680494

1-ethyl-2,3-dimethyl-imidazolium	perfluorobutanesulfonate	-9.5486479	-9.08337	0.074268974
1-ethyl-2,3-dimethyl-imidazolium	pf6	-9.42677106	-8.41827	0.070530873
1-ethyl-2,3-dimethyl-imidazolium	sbf6	-8.59257655	-9.31572	0.108601217
1-ethyl-2,3-dimethyl-imidazolium	tetracyanoborate	-8.84752515	-10.44029	0.116153553
1-ethyl-2,3-dimethyl-imidazolium	tf2n	-8.81460603	-9.88783	0.109462425
1-ethyl-2,3-dimethyl-imidazolium	tricyanomethane	-9.5552301	-9.62292	0.079940594
1-ethyl-2,3-dimethyl-imidazolium	trifluoromethane-sulfonate	-9.93095691	-8.41879	0.055912389
1-ethyl-2,3-dimethyl-imidazolium	trifluoromethyltrifluoroborate	-9.23166176	-8.82991	0.081308816
1-ethyl-3-methyl-imidazolium	bf4	-9.60499699	-6.85116	0.048643112
1-ethyl-3-methyl-imidazolium	bis(fluorosulfonyl)imide	-5.95680056	-10.7483	0.236271354
1-ethyl-3-methyl-imidazolium	bis(trifluoromethylsulfonyl)methane	-6.82965987	-10.20481	0.188388489
1-ethyl-3-methyl-imidazolium	clo4	-9.15144429	-7.80959	0.070715801
1-ethyl-3-methyl-imidazolium	i	-10.09455309	-5.43786	0.026273831
1-ethyl-3-methyl-imidazolium	octylsulfate	-9.27661859	-10.15273	0.096086055
1-ethyl-3-methyl-imidazolium	perfluorobutanesulfonate	-8.19644618	-9.19748	0.119723549
1-ethyl-3-methyl-imidazolium	pf6	-7.53840897	-8.47493	0.126459052
1-ethyl-3-methyl-imidazolium	sbf6	-6.20093481	-9.4091	0.190629543
1-ethyl-3-methyl-imidazolium	tetracyanoborate	-7.00023477	-10.68994	0.19315624
1-ethyl-3-methyl-imidazolium	tf2n	-6.80449041	-9.98724	0.184125782
1-ethyl-3-methyl-imidazolium	tricyanomethane	-8.2587546	-9.92971	0.130164849
1-ethyl-3-methyl-imidazolium	trifluoromethane-sulfonate	-8.85328011	-8.57363	0.089374515
1-ethyl-3-methyl-imidazolium	trifluoromethyltrifluoroborate	-7.41331336	-8.94079	0.139924322
1-ethyl-3-methylpyridinium	bf4	-9.80544144	-7.29833	0.048662798
1-ethyl-3-methylpyridinium	bis(fluorosulfonyl)imide	-7.2757649	-10.69784	0.182373173
1-ethyl-3-methylpyridinium	bis(trifluoromethylsulfonyl)methane	-7.86393649	-10.20514	0.149649549
1-ethyl-3-methylpyridinium	clo4	-9.49293267	-8.17277	0.065862611
1-ethyl-3-methylpyridinium	i	-10.29274232	-6.35638	0.030130559
1-ethyl-3-methylpyridinium	octylsulfate	-9.6979828	-10.08394	0.07970156
1-ethyl-3-methylpyridinium	perfluorobutanesulfonate	-8.89714545	-9.23196	0.097299373
1-ethyl-3-methylpyridinium	pf6	-8.36628361	-8.64031	0.104959749
1-ethyl-3-methylpyridinium	sbf6	-7.45995472	-9.46321	0.149334555
1-ethyl-3-methylpyridinium	tetracyanoborate	-8.00207471	-10.60901	0.151847829
1-ethyl-3-methylpyridinium	tf2n	-7.89709242	-10.00488	0.144651835
1-ethyl-3-methylpyridinium	tricyanomethane	-8.87251069	-9.88023	0.107272707
1-ethyl-3-methylpyridinium	trifluoromethane-sulfonate	-9.29373039	-8.68173	0.077588453
1-ethyl-3-methylpyridinium	trifluoromethyltrifluoroborate	-8.26601255	-9.02789	0.114565011
1-ethyl-pyridinium	bf4	-10.00036743	-6.7445	0.039170807
1-ethyl-pyridinium	bis(fluorosulfonyl)imide	-6.47931226	-10.76969	0.215897813
1-ethyl-pyridinium	bis(trifluoromethylsulfonyl)methane	-7.18113793	-10.20172	0.175153299
1-ethyl-pyridinium	clo4	-9.60140193	-7.73792	0.058196115
1-ethyl-pyridinium	i	-10.27942464	-5.10589	0.021038592
1-ethyl-pyridinium	octylsulfate	-9.31243867	-10.1987	0.095307119
1-ethyl-pyridinium	perfluorobutanesulfonate	-8.36710445	-9.18611	0.113956385
1-ethyl-pyridinium	pf6	-8.10060923	-8.43434	0.109280292
1-ethyl-pyridinium	sbf6	-6.73900153	-9.39324	0.172115409
1-ethyl-pyridinium	tetracyanoborate	-7.45496773	-10.72902	0.175891769
1-ethyl-pyridinium	tf2n	-7.20747564	-9.97993	0.169283608
1-ethyl-pyridinium	tricyanomethane	-8.58782	-9.96492	0.118811416
1-ethyl-pyridinium	trifluoromethane-sulfonate	-9.04925879	-8.55592	0.08331075
1-ethyl-pyridinium	trifluoromethyltrifluoroborate	-7.83050704	-8.91996	0.126395003
1-heptyl-3-methyl-imidazolium	2-(2-methoxyethoxy)ethylsulfate	-9.60853963	-9.75445	0.079491418
1-heptyl-3-methyl-imidazolium	bf4	-8.16179513	-9.71047	0.129833973
1-heptyl-3-methyl-imidazolium	bis(fluorosulfonyl)imide	-5.69947202	-11.57718	0.270741056
1-heptyl-3-methyl-imidazolium	bis(trifluoromethylsulfonyl)methane	-6.8002249	-11.04882	0.209701998
1-heptyl-3-methyl-imidazolium	clo4	-7.71884717	-10.34539	0.157833529
1-heptyl-3-methyl-imidazolium	ethylsulfate	-9.39009054	-9.86308	0.08847846
1-heptyl-3-methyl-imidazolium	i	-9.56828586	-9.70168	0.080341406
1-heptyl-3-methyl-imidazolium	methylsulfate	-9.39211443	-9.65881	0.086020821
1-heptyl-3-methyl-imidazolium	octylsulfate	-9.24101169	-10.8312	0.10581842
1-heptyl-3-methyl-imidazolium	perfluorobutanesulfonate	-8.0516466	-10.29777	0.144286796
1-heptyl-3-methyl-imidazolium	pf6	-6.33711439	-10.31318	0.209672442
1-heptyl-3-methyl-imidazolium	sbf6	-5.66750215	-10.7298	0.247310926
1-heptyl-3-methyl-imidazolium	tetracyanoborate	-6.60702647	-11.51364	0.229267169

1-heptyl-3-methyl-imidazolium	tf2n	-6.73628797	-10.90328	0.208823428
1-heptyl-3-methyl-imidazolium	thiocyanate	-8.69600939	-10.75722	0.126743346
1-heptyl-3-methyl-imidazolium	tricyanomethane	-7.54564529	-11.13669	0.180593413
1-heptyl-3-methyl-imidazolium	trifluoromethane-sulfonate	-8.17846653	-10.26208	0.13885839
1-heptyl-3-methyl-imidazolium	trifluoromethyltrifluoroborate	-6.603775	-10.48759	0.203884887
1-hexadecyl-3-methyl-imidazolium	2-(2-methoxyethoxy)ethylsulfate	-9.53803101	-10.89985	0.094565125
1-hexadecyl-3-methyl-imidazolium	bf4	-7.94599629	-11.18249	0.164677963
1-hexadecyl-3-methyl-imidazolium	bis(fluorosulfonyl)imide	-6.23859303	-12.26055	0.265223448
1-hexadecyl-3-methyl-imidazolium	bis(trifluoromethylsulfonyl)methane	-7.25446601	-11.82121	0.207705548
1-hexadecyl-3-methyl-imidazolium	clo4	-7.58487027	-11.61923	0.188713561
1-hexadecyl-3-methyl-imidazolium	dicyanamide	-8.80236134	-11.53441	0.133725608
1-hexadecyl-3-methyl-imidazolium	ethylsulfate	-9.31557884	-11.09963	0.10603543
1-hexadecyl-3-methyl-imidazolium	hso4	-6.96771717	-11.14104	0.204893521
1-hexadecyl-3-methyl-imidazolium	i	-9.20800721	-11.45804	0.115018109
1-hexadecyl-3-methyl-imidazolium	methylsulfate	-9.21829666	-11.05214	0.109498247
1-hexadecyl-3-methyl-imidazolium	octylsulfate	-9.47608177	-11.52416	0.104131045
1-hexadecyl-3-methyl-imidazolium	perfluorobutanesulfonate	-8.36504489	-11.27479	0.148566913
1-hexadecyl-3-methyl-imidazolium	pf6	-6.5403766	-11.48899	0.231556315
1-hexadecyl-3-methyl-imidazolium	saccharin	-9.14726019	-11.35966	0.116391421
1-hexadecyl-3-methyl-imidazolium	sbf6	-6.13832596	-11.7144	0.255165807
1-hexadecyl-3-methyl-imidazolium	tetracyanoborate	-7.01538825	-12.17475	0.226596941
1-hexadecyl-3-methyl-imidazolium	tf2n	-7.18245121	-11.72681	0.208864656
1-hexadecyl-3-methyl-imidazolium	thiocyanate	-8.53585651	-11.98732	0.152510801
1-hexadecyl-3-methyl-imidazolium	tricyanomethane	-7.79016598	-11.94198	0.185864423
1-hexadecyl-3-methyl-imidazolium	trifluoromethane-sulfonate	-8.33739487	-11.40166	0.151857596
1-hexadecyl-3-methyl-imidazolium	trifluoromethyltrifluoroborate	-6.91155695	-11.56784	0.217241555
1-hexadecylpyridinium	2-(2-methoxyethoxy)ethylsulfate	-9.60560165	-10.91499	0.091972999
1-hexadecylpyridinium	bf4	-8.25554013	-11.18432	0.151680636
1-hexadecylpyridinium	bis(fluorosulfonyl)imide	-6.95922717	-12.2578	0.23115076
1-hexadecylpyridinium	bis(trifluoromethylsulfonyl)methane	-7.73900144	-11.81491	0.185723747
1-hexadecylpyridinium	clo4	-7.98505627	-11.62008	0.171058129
1-hexadecylpyridinium	dicyanamide	-8.86036369	-11.56249	0.131586242
1-hexadecylpyridinium	ethylsulfate	-9.37897378	-11.12163	0.103650282
1-hexadecylpyridinium	hso4	-7.00974122	-11.15896	0.203544339
1-hexadecylpyridinium	i	-9.33402958	-11.48452	0.109865969
1-hexadecylpyridinium	methylsulfate	-9.29239236	-11.07228	0.106669987
1-hexadecylpyridinium	octylsulfate	-9.54416159	-11.54491	0.101382828
1-hexadecylpyridinium	perfluorobutanesulfonate	-8.60564604	-11.27215	0.13829435
1-hexadecylpyridinium	pf6	-7.18124176	-11.48156	0.203488235
1-hexadecylpyridinium	saccharin	-9.19159042	-11.37857	0.114727152
1-hexadecylpyridinium	sbf6	-6.87937495	-11.70643	0.221921563
1-hexadecylpyridinium	tetracyanoborate	-7.51400039	-12.18045	0.203385683
1-hexadecylpyridinium	tf2n	-7.72396003	-11.72006	0.184545342
1-hexadecylpyridinium	thiocyanate	-8.66496768	-11.99495	0.14670001
1-hexadecylpyridinium	tricyanomethane	-8.07756435	-11.95507	0.172968955
1-hexadecylpyridinium	trifluoromethane-sulfonate	-8.53093613	-11.4062	0.143582254
1-hexadecylpyridinium	trifluoromethyltrifluoroborate	-7.42936367	-11.56131	0.194365809
1-hexyl-1-methyl-pyrrolidinium	2-(2-methoxyethoxy)ethylsulfate	-10.69781344	-9.07356	0.037266827
1-hexyl-1-methyl-pyrrolidinium	bf4	-10.28170084	-8.79392	0.048538973
1-hexyl-1-methyl-pyrrolidinium	bis(fluorosulfonyl)imide	-8.90879003	-11.09048	0.122869621
1-hexyl-1-methyl-pyrrolidinium	bis(trifluoromethylsulfonyl)methane	-9.33444374	-10.58363	0.099083027
1-hexyl-1-methyl-pyrrolidinium	clo4	-10.12586177	-9.49021	0.059047414
1-hexyl-1-methyl-pyrrolidinium	i	-10.73259869	-8.5388	0.033299573
1-hexyl-1-methyl-pyrrolidinium	methylsulfate	-10.64282288	-8.71811	0.036986611
1-hexyl-1-methyl-pyrrolidinium	octylsulfate	-10.42814213	-10.29263	0.054179927
1-hexyl-1-methyl-pyrrolidinium	perfluorobutanesulfonate	-9.96967809	-9.73035	0.066517207
1-hexyl-1-methyl-pyrrolidinium	pf6	-9.42160296	-9.6384	0.084756907
1-hexyl-1-methyl-pyrrolidinium	sbf6	-8.99954485	-10.16233	0.106527174
1-hexyl-1-methyl-pyrrolidinium	tetracyanoborate	-9.09678218	-10.96142	0.113351645
1-hexyl-1-methyl-pyrrolidinium	tf2n	-9.44751522	-10.42893	0.092878732
1-hexyl-1-methyl-pyrrolidinium	tricyanomethane	-9.50998373	-10.4209	0.090383033
1-hexyl-1-methyl-pyrrolidinium	trifluoromethane-sulfonate	-10.00060593	-9.50074	0.063408527
1-hexyl-1-methyl-pyrrolidinium	trifluoromethyltrifluoroborate	-9.37879977	-9.83335	0.088534152

1-hexyl-2-3-methyl-imidazolium	2-(2-methoxyethoxy)ethylsulfate	-10.39547637	-9.37958	0.049093175
1-hexyl-2-3-methyl-imidazolium	bf4	-9.69626117	-9.25197	0.071248727
1-hexyl-2-3-methyl-imidazolium	bis(fluorosulfonyl)imide	-8.25298649	-11.32119	0.15412435
1-hexyl-2-3-methyl-imidazolium	bis(trifluoromethylsulfonyl)methane	-8.80296311	-10.80387	0.123131845
1-hexyl-2-3-methyl-imidazolium	clo4	-9.50067209	-9.9102	0.085040809
1-hexyl-2-3-methyl-imidazolium	ethylsulfate	-10.24295259	-9.39615	0.054337766
1-hexyl-2-3-methyl-imidazolium	i	-10.38514926	-9.09368	0.047445499
1-hexyl-2-3-methyl-imidazolium	methylsulfate	-10.2715197	-9.14769	0.051510271
1-hexyl-2-3-methyl-imidazolium	octylsulfate	-10.13865685	-10.51564	0.066960485
1-hexyl-2-3-methyl-imidazolium	perfluorobutanesulfonate	-9.53375107	-9.99493	0.084780279
1-hexyl-2-3-methyl-imidazolium	pf6	-8.70105366	-9.98518	0.115000987
1-hexyl-2-3-methyl-imidazolium	sbf6	-8.27237575	-10.45308	0.138557598
1-hexyl-2-3-methyl-imidazolium	tetracyanoborate	-8.64703121	-11.19878	0.135419429
1-hexyl-2-3-methyl-imidazolium	tf2n	-8.87886562	-10.6583	0.118019796
1-hexyl-2-3-methyl-imidazolium	tricyanomethane	-9.12541155	-10.72237	0.1090836
1-hexyl-2-3-methyl-imidazolium	trifluoromethane-sulfonate	-9.54280807	-9.85309	0.082895028
1-hexyl-2-3-methyl-imidazolium	trifluoromethyltrifluoroborate	-8.73767455	-10.15974	0.116246206
1-hexyl-3-methyl-imidazolium	2-(2-methoxyethoxy)ethylsulfate	-9.6759243	-9.54216	0.074917261
1-hexyl-3-methyl-imidazolium	bf4	-8.3457835	-9.38784	0.118006946
1-hexyl-3-methyl-imidazolium	bis(fluorosulfonyl)imide	-5.74030847	-11.44883	0.265228458
1-hexyl-3-methyl-imidazolium	bis(trifluoromethylsulfonyl)methane	-6.82466347	-10.91272	0.205445523
1-hexyl-3-methyl-imidazolium	clo4	-7.89487956	-10.06199	0.145804255
1-hexyl-3-methyl-imidazolium	ethylsulfate	-9.47964343	-9.61122	0.082432177
1-hexyl-3-methyl-imidazolium	i	-9.71082956	-9.26122	0.070862741
1-hexyl-3-methyl-imidazolium	methylsulfate	-9.50703428	-9.35924	0.078677973
1-hexyl-3-methyl-imidazolium	octylsulfate	-9.25737291	-10.71391	0.103712678
1-hexyl-3-methyl-imidazolium	perfluorobutanesulfonate	-8.0856111	-10.12441	0.139903085
1-hexyl-3-methyl-imidazolium	pf6	-6.46344991	-10.07663	0.19883335
1-hexyl-3-methyl-imidazolium	sbf6	-5.7320666	-10.54155	0.239272014
1-hexyl-3-methyl-imidazolium	tetracyanoborate	-6.6596706	-11.38678	0.223846649
1-hexyl-3-methyl-imidazolium	tf2n	-6.7664934	-10.75759	0.204080034
1-hexyl-3-methyl-imidazolium	thiocyanate	-8.85409182	-10.44989	0.116036781
1-hexyl-3-methyl-imidazolium	tricyanomethane	-7.62468505	-10.97152	0.17397327
1-hexyl-3-methyl-imidazolium	trifluoromethane-sulfonate	-8.25999484	-10.03394	0.131895629
1-hexyl-3-methyl-imidazolium	trifluoromethyltrifluoroborate	-6.69280077	-10.27583	0.195252164
1-hexyl-3-methyl-pyridinium	2-(2-methoxyethoxy)ethylsulfate	-10.01023049	-9.52159	0.063262497
1-hexyl-3-methyl-pyridinium	bf4	-8.94330608	-9.42885	0.098499985
1-hexyl-3-methyl-pyridinium	bis(fluorosulfonyl)imide	-7.09975631	-11.40809	0.205378134
1-hexyl-3-methyl-pyridinium	bis(trifluoromethylsulfonyl)methane	-7.89232534	-10.89328	0.16150668
1-hexyl-3-methyl-pyridinium	clo4	-8.63457491	-10.08312	0.118917035
1-hexyl-3-methyl-pyridinium	ethylsulfate	-9.82459578	-9.57376	0.07011851
1-hexyl-3-methyl-pyridinium	i	-9.97860703	-9.38692	0.06314634
1-hexyl-3-methyl-pyridinium	methylsulfate	-9.83293425	-9.34937	0.067679298
1-hexyl-3-methyl-pyridinium	octylsulfate	-9.72616423	-10.62502	0.084124068
1-hexyl-3-methyl-pyridinium	perfluorobutanesulfonate	-8.85521713	-10.10794	0.111131521
1-hexyl-3-methyl-pyridinium	pf6	-7.6124714	-10.09902	0.156936989
1-hexyl-3-methyl-pyridinium	sbf6	-7.09411257	-10.54522	0.186159718
1-hexyl-3-methyl-pyridinium	tetracyanoborate	-7.74468914	-11.31296	0.175691794
1-hexyl-3-methyl-pyridinium	tf2n	-7.90047214	-10.74766	0.158446365
1-hexyl-3-methyl-pyridinium	thiocyanate	-9.32274516	-10.40806	0.097434604
1-hexyl-3-methyl-pyridinium	tricyanomethane	-8.42052074	-10.87858	0.13975912
1-hexyl-3-methyl-pyridinium	trifluoromethane-sulfonate	-8.9021217	-10.00799	0.10799705
1-hexyl-3-methyl-pyridinium	trifluoromethyltrifluoroborate	-7.75555286	-10.27524	0.155071492
1-hexyl-4-methyl-pyridinium	2-(2-methoxyethoxy)ethylsulfate	-10.00850007	-9.53167	0.063410007
1-hexyl-4-methyl-pyridinium	bf4	-8.94475868	-9.44506	0.098674505
1-hexyl-4-methyl-pyridinium	bis(fluorosulfonyl)imide	-7.13358691	-11.41488	0.20406997
1-hexyl-4-methyl-pyridinium	bis(trifluoromethylsulfonyl)methane	-7.9142053	-10.90011	0.160743254
1-hexyl-4-methyl-pyridinium	clo4	-8.64452815	-10.09846	0.118783311
1-hexyl-4-methyl-pyridinium	ethylsulfate	-9.82218809	-9.58604	0.070319894
1-hexyl-4-methyl-pyridinium	i	-9.9774942	-9.41507	0.063434395
1-hexyl-4-methyl-pyridinium	methylsulfate	-9.82965902	-9.36462	0.067935202
1-hexyl-4-methyl-pyridinium	octylsulfate	-9.72852355	-10.62974	0.084078587
1-hexyl-4-methyl-pyridinium	perfluorobutanesulfonate	-8.86505404	-10.1163	0.110886002

1-hexyl-4-methyl-pyridinium	pf6	-7.63601067	-10.11043	0.156295051
1-hexyl-4-methyl-pyridinium	sbf6	-7.12612112	-10.55407	0.18510733
1-hexyl-4-methyl-pyridinium	tetracyanoborate	-7.76523396	-11.31929	0.174937046
1-hexyl-4-methyl-pyridinium	tf2n	-7.92550036	-10.7549	0.157579264
1-hexyl-4-methyl-pyridinium	thiocyanate	-9.31861369	-10.42662	0.097816517
1-hexyl-4-methyl-pyridinium	tricyanomethane	-8.42845981	-10.88692	0.139571816
1-hexyl-4-methyl-pyridinium	trifluoromethane-sulfonate	-8.90674134	-10.01959	0.107990395
1-hexyl-4-methyl-pyridinium	trifluoromethyltrifluoroborate	-7.77321668	-10.28535	0.154599424
1-hexyl-pyridinium	2-(2-methoxyethoxy)ethylsulfate	-9.73446648	-9.55189	0.073005691
1-hexyl-pyridinium	bf4	-8.61330035	-9.37175	0.1087729
1-hexyl-pyridinium	bis(fluorosulfonyl)imide	-6.3158858	-11.44806	0.240256782
1-hexyl-pyridinium	bis(trifluoromethylsulfonyl)methane	-7.20473783	-10.90333	0.189726906
1-hexyl-pyridinium	clo4	-8.2306303	-10.05232	0.133287576
1-hexyl-pyridinium	ethylsulfate	-9.54193716	-9.62824	0.080460289
1-hexyl-pyridinium	i	-9.86494602	-9.24918	0.065664164
1-hexyl-pyridinium	methylsulfate	-9.58563122	-9.36826	0.076145317
1-hexyl-pyridinium	octylsulfate	-9.30091981	-10.74113	0.102305987
1-hexyl-pyridinium	perfluorobutanesulfonate	-8.26558	-10.11484	0.133066966
1-hexyl-pyridinium	pf6	-6.97880173	-10.05565	0.179355746
1-hexyl-pyridinium	sbf6	-6.31860041	-10.5251	0.215933357
1-hexyl-pyridinium	tetracyanoborate	-7.08612747	-11.40009	0.205785579
1-hexyl-pyridinium	tf2n	-7.19652444	-10.74645	0.186599388
1-hexyl-pyridinium	thiocyanate	-9.01016348	-10.44279	0.109913344
1-hexyl-pyridinium	tricyanomethane	-7.88076536	-10.99222	0.163840539
1-hexyl-pyridinium	trifluoromethane-sulfonate	-8.41253393	-10.03057	0.126249753
1-hexyl-pyridinium	trifluoromethyltrifluoroborate	-7.09791669	-10.25975	0.179577462
1-methyl-1-pentylpyrrolidinium	bf4	-10.47147136	-8.32495	0.039617967
1-methyl-1-pentylpyrrolidinium	bis(fluorosulfonyl)imide	-8.96333689	-10.91214	0.118153199
1-methyl-1-pentylpyrrolidinium	bis(trifluoromethylsulfonyl)methane	-9.35636109	-10.41224	0.096192482
1-methyl-1-pentylpyrrolidinium	clo4	-10.31383696	-9.06917	0.049562594
1-methyl-1-pentylpyrrolidinium	i	-10.82388131	-7.9046	0.027493523
1-methyl-1-pentylpyrrolidinium	octylsulfate	-10.44626349	-10.14223	0.052487996
1-methyl-1-pentylpyrrolidinium	perfluorobutanesulfonate	-10.00632499	-9.51458	0.063334703
1-methyl-1-pentylpyrrolidinium	pf6	-9.58187263	-9.30856	0.075627794
1-methyl-1-pentylpyrrolidinium	sbf6	-9.09192246	-9.9076	0.099748906
1-methyl-1-pentylpyrrolidinium	tetracyanoborate	-9.15282043	-10.7833	0.10877013
1-methyl-1-pentylpyrrolidinium	tf2n	-9.47482735	-10.24617	0.089764233
1-methyl-1-pentylpyrrolidinium	tricyanomethane	-9.60217324	-10.17903	0.084251602
1-methyl-1-pentylpyrrolidinium	trifluoromethane-sulfonate	-10.09892817	-9.18676	0.057437485
1-methyl-1-pentylpyrrolidinium	trifluoromethyltrifluoroborate	-9.4973156	-9.54194	0.081045394
1-methyl-1-propylpiperidinium	bf4	-10.7561643	-7.3888	0.026601054
1-methyl-1-propylpiperidinium	bis(fluorosulfonyl)imide	-9.16037209	-10.54157	0.105378876
1-methyl-1-propylpiperidinium	bis(trifluoromethylsulfonyl)methane	-9.46134158	-10.08803	0.088477419
1-methyl-1-propylpiperidinium	clo4	-10.617872	-8.21159	0.034770677
1-methyl-1-propylpiperidinium	i	-10.84082606	-6.71466	0.021310162
1-methyl-1-propylpiperidinium	octylsulfate	-10.51462008	-9.8545	0.048116923
1-methyl-1-propylpiperidinium	perfluorobutanesulfonate	-10.12917216	-9.11581	0.055869406
1-methyl-1-propylpiperidinium	pf6	-9.94071677	-8.63456	0.057588292
1-methyl-1-propylpiperidinium	sbf6	-9.36738067	-9.39017	0.083715299
1-methyl-1-propylpiperidinium	tetracyanoborate	-9.33276574	-10.41314	0.097110323
1-methyl-1-propylpiperidinium	tf2n	-9.58788806	-9.90253	0.08181279
1-methyl-1-propylpiperidinium	tricyanomethane	-9.83037747	-9.67093	0.070852166
1-methyl-1-propylpiperidinium	trifluoromethane-sulfonate	-10.31430229	-8.56989	0.045897655
1-methyl-1-propylpiperidinium	trifluoromethyltrifluoroborate	-9.79669318	-8.95277	0.065018989
1-methyl-1-propylpyrrolidinium	bf4	-10.91500643	-6.92711	0.020705892
1-methyl-1-propylpyrrolidinium	bis(fluorosulfonyl)imide	-9.10990514	-10.44653	0.106113204
1-methyl-1-propylpyrrolidinium	bis(trifluoromethylsulfonyl)methane	-9.3784269	-9.99308	0.090422852
1-methyl-1-propylpyrrolidinium	clo4	-10.77624245	-7.79977	0.02822226
1-methyl-1-propylpyrrolidinium	i	-10.85479879	-5.99773	0.01761086
1-methyl-1-propylpyrrolidinium	octylsulfate	-10.46757936	-9.80007	0.049442694
1-methyl-1-propylpyrrolidinium	perfluorobutanesulfonate	-10.07265616	-8.98647	0.056601696
1-methyl-1-propylpyrrolidinium	pf6	-10.05702647	-8.36437	0.051791481
1-methyl-1-propylpyrrolidinium	sbf6	-9.36961124	-9.2166	0.081595215

1-methyl-1-propylpyrrolidinium	tetracyanoborate	-9.29667738	-10.32118	0.097382535
1-methyl-1-propylpyrrolidinium	tf2n	-9.50718901	-9.79581	0.083532443
1-methyl-1-propylpyrrolidinium	tricyanomethane	-9.86102621	-9.51487	0.068305731
1-methyl-1-propylpyrrolidinium	trifluoromethane-sulfonate	-10.36062004	-8.33391	0.042847626
1-methyl-1-propylpyrrolidinium	trifluoromethyltrifluoroborate	-9.85114353	-8.73713	0.061252695
1-methyl-pyridinium	bf4	-10.75254427	-5.48344	0.016712121
1-methyl-pyridinium	bis(fluorosulfonyl)imide	-6.13120188	-10.76362	0.229704744
1-methyl-pyridinium	bis(trifluoromethylsulfonyl)methane	-6.95399701	-10.1111	0.181554896
1-methyl-pyridinium	clo4	-10.37302689	-6.69944	0.030998256
1-methyl-pyridinium	i	-10.02938756	-2.48934	0.00171221
1-methyl-pyridinium	octylsulfate	-9.18039365	-10.19105	0.100152867
1-methyl-pyridinium	perfluorobutanesulfonate	-8.22996648	-9.01451	0.115484666
1-methyl-pyridinium	pf6	-8.54236797	-7.99751	0.089576322
1-methyl-pyridinium	sbf6	-6.44232767	-9.20046	0.17714636
1-methyl-pyridinium	tetracyanoborate	-7.39927646	-10.75362	0.178635545
1-methyl-pyridinium	tf2n	-7.00346297	-9.86353	0.17403362
1-methyl-pyridinium	tricyanomethane	-8.81931122	-9.86801	0.109008056
1-methyl-pyridinium	trifluoromethane-sulfonate	-9.28064033	-8.17655	0.071819268
1-methyl-pyridinium	trifluoromethyltrifluoroborate	-7.94240556	-8.64512	0.117788487
1-octyl-1-methyl-pyrrolidinium	2-(2-methoxyethoxy)ethylsulfate	-10.64355316	-9.51393	0.041541847
1-octyl-1-methyl-pyrrolidinium	bf4	-10.08378897	-9.48721	0.060455974
1-octyl-1-methyl-pyrrolidinium	bis(fluorosulfonyl)imide	-9.00002355	-11.3779	0.122958856
1-octyl-1-methyl-pyrrolidinium	bis(trifluoromethylsulfonyl)methane	-9.43316557	-10.87217	0.098520728
1-octyl-1-methyl-pyrrolidinium	clo4	-9.95102591	-10.10784	0.070582892
1-octyl-1-methyl-pyrrolidinium	ethylsulfate	-10.50558886	-9.54969	0.04648796
1-octyl-1-methyl-pyrrolidinium	i	-10.58552266	-9.44587	0.04311577
1-octyl-1-methyl-pyrrolidinium	methylsulfate	-10.5234036	-9.34973	0.04461197
1-octyl-1-methyl-pyrrolidinium	octylsulfate	-10.46909638	-10.53971	0.054253938
1-octyl-1-methyl-pyrrolidinium	perfluorobutanesulfonate	-10.02037219	-10.09048	0.067865868
1-octyl-1-methyl-pyrrolidinium	pf6	-9.34718966	-10.14949	0.093421262
1-octyl-1-methyl-pyrrolidinium	sbf6	-9.04047739	-10.57054	0.110447891
1-octyl-1-methyl-pyrrolidinium	tetracyanoborate	-9.16293012	-11.24396	0.114242274
1-octyl-1-methyl-pyrrolidinium	tf2n	-9.54501433	-10.73666	0.092493229
1-octyl-1-methyl-pyrrolidinium	tricyanomethane	-9.49985588	-10.78724	0.094863398
1-octyl-1-methyl-pyrrolidinium	trifluoromethane-sulfonate	-9.95615456	-9.98809	0.06931465
1-octyl-1-methyl-pyrrolidinium	trifluoromethyltrifluoroborate	-9.3580803	-10.29198	0.094702836
1-octyl-3-methyl-imidazolium	2-(2-methoxyethoxy)ethylsulfate	-9.5766004	-9.9406	0.08263075
1-octyl-3-methyl-imidazolium	bf4	-8.06536093	-9.97767	0.138018955
1-octyl-3-methyl-imidazolium	bis(fluorosulfonyl)imide	-5.74527088	-11.68843	0.271947449
1-octyl-3-methyl-imidazolium	bis(trifluoromethylsulfonyl)methane	-6.84615049	-11.16909	0.210651938
1-octyl-3-methyl-imidazolium	clo4	-7.6364611	-10.57831	0.165630113
1-octyl-3-methyl-imidazolium	ethylsulfate	-9.34438503	-10.07692	0.092661854
1-octyl-3-methyl-imidazolium	i	-9.47128157	-10.05174	0.087700422
1-octyl-3-methyl-imidazolium	methylsulfate	-9.32563698	-9.90881	0.091337037
1-octyl-3-methyl-imidazolium	octylsulfate	-9.25848318	-10.93588	0.106400594
1-octyl-3-methyl-imidazolium	perfluorobutanesulfonate	-8.0749005	-10.45074	0.146145427
1-octyl-3-methyl-imidazolium	pf6	-6.31128916	-10.51491	0.215950732
1-octyl-3-methyl-imidazolium	sbf6	-5.69536593	-10.89303	0.250960367
1-octyl-3-methyl-imidazolium	tetracyanoborate	-6.63424088	-11.62182	0.230754571
1-octyl-3-methyl-imidazolium	tf2n	-6.78018935	-11.0321	0.210130639
1-octyl-3-methyl-imidazolium	thiocyanate	-8.61148409	-10.99816	0.13383446
1-octyl-3-methyl-imidazolium	tricyanomethane	-7.5399203	-11.27432	0.183646909
1-octyl-3-methyl-imidazolium	trifluoromethane-sulfonate	-8.1616764	-10.45594	0.142884681
1-octyl-3-methyl-imidazolium	trifluoromethyltrifluoroborate	-6.60411958	-10.66929	0.208391228
1-octyl-pyridinium	2-(2-methoxyethoxy)ethylsulfate	-9.64385834	-9.94841	0.080277199
1-octyl-pyridinium	bf4	-8.34726561	-9.9655	0.127559316
1-octyl-pyridinium	bis(fluorosulfonyl)imide	-6.37970914	-11.68288	0.243580762
1-octyl-pyridinium	bis(trifluoromethylsulfonyl)methane	-7.27047436	-11.15705	0.192557774
1-octyl-pyridinium	clo4	-7.9951013	-10.5695	0.15139978
1-octyl-pyridinium	ethylsulfate	-9.41184531	-10.09189	0.090348952
1-octyl-pyridinium	i	-9.61906231	-10.05705	0.08232777
1-octyl-pyridinium	methylsulfate	-9.40653352	-9.9188	0.088535881
1-octyl-pyridinium	octylsulfate	-9.3177062	-10.9566	0.104226297

1-octyl-pyridinium	perfluorobutanesulfonate	-8.2832448	-10.43968	0.137910853
1-octyl-pyridinium	pf6	-6.87388798	-10.49529	0.193586253
1-octyl-pyridinium	sbf6	-6.34319778	-10.87581	0.224131576
1-octyl-pyridinium	tetracyanoborate	-7.09245857	-11.62833	0.210662312
1-octyl-pyridinium	tf2n	-7.25712602	-11.01883	0.190107112
1-octyl-pyridinium	thiocyanate	-8.76139989	-10.99527	0.127613028
1-octyl-pyridinium	tricyanomethane	-7.81190105	-11.28804	0.172343976
1-octyl-pyridinium	trifluoromethane-sulfonate	-8.33337374	-10.45138	0.136172482
1-octyl-pyridinium	trifluoromethyltrifluoroborate	-7.05321374	-10.6527	0.190202759
1-pentyl-3-methyl-imidazolium	bf4	-8.53012952	-8.99466	0.105618828
1-pentyl-3-methyl-imidazolium	bis(fluorosulfonyl)imide	-5.72108125	-11.30514	0.261887068
1-pentyl-3-methyl-imidazolium	bis(trifluoromethylsulfonyl)methane	-6.79533047	-10.76396	0.203076987
1-pentyl-3-methyl-imidazolium	clo4	-8.06422292	-9.71608	0.133361569
1-pentyl-3-methyl-imidazolium	i	-9.84236725	-8.70851	0.061247318
1-pentyl-3-methyl-imidazolium	methylsulfate	-9.61834566	-9.00189	0.071163923
1-pentyl-3-methyl-imidazolium	octylsulfate	-9.2545979	-10.58771	0.102267629
1-pentyl-3-methyl-imidazolium	perfluorobutanesulfonate	-8.0873594	-9.93367	0.136432994
1-pentyl-3-methyl-imidazolium	pf6	-6.56186355	-9.7985	0.188232378
1-pentyl-3-methyl-imidazolium	sbf6	-5.7435613	-10.32602	0.232583823
1-pentyl-3-methyl-imidazolium	tetracyanoborate	-6.67234899	-11.24555	0.219833342
1-pentyl-3-methyl-imidazolium	tf2n	-6.73943517	-10.59764	0.201288248
1-pentyl-3-methyl-imidazolium	thiocyanate	-9.02060783	-10.06791	0.104473843
1-pentyl-3-methyl-imidazolium	tricyanomethane	-7.68877536	-10.78184	0.167595505
1-pentyl-3-methyl-imidazolium	trifluoromethane-sulfonate	-8.32935504	-9.77008	0.124945035
1-pentyl-3-methyl-imidazolium	trifluoromethyltrifluoroborate	-6.75039127	-10.03125	0.187160932
1-propenyl-3-methyl-imidazolium	bf4	-9.35093533	-7.66702	0.063812198
1-propenyl-3-methyl-imidazolium	bis(fluorosulfonyl)imide	-5.51822659	-11.10457	0.26452275
1-propenyl-3-methyl-imidazolium	bis(trifluoromethylsulfonyl)methane	-6.52554932	-10.5012	0.207263635
1-propenyl-3-methyl-imidazolium	clo4	-8.83892492	-8.57826	0.089867611
1-propenyl-3-methyl-imidazolium	i	-10.11939772	-6.33209	0.033266183
1-propenyl-3-methyl-imidazolium	octylsulfate	-9.1013402	-10.41247	0.105999282
1-propenyl-3-methyl-imidazolium	perfluorobutanesulfonate	-7.93381399	-9.54227	0.134715761
1-propenyl-3-methyl-imidazolium	pf6	-6.99060226	-9.11159	0.157166189
1-propenyl-3-methyl-imidazolium	sbf6	-5.65588389	-9.90436	0.223537203
1-propenyl-3-methyl-imidazolium	tetracyanoborate	-6.69383905	-11.01487	0.213282331
1-propenyl-3-methyl-imidazolium	tf2n	-6.488222	-10.29888	0.203570705
1-propenyl-3-methyl-imidazolium	tricyanomethane	-7.95210954	-10.37343	0.149458566
1-propenyl-3-methyl-imidazolium	trifluoromethane-sulfonate	-8.55176593	-9.11123	0.10675709
1-propenyl-3-methyl-imidazolium	trifluoromethyltrifluoroborate	-6.92637033	-9.49266	0.168137588
1-propenyl-3-octyl-imidazolium	2-(2-methoxyethoxy)ethylsulfate	-9.47172147	-10.23618	0.08976831
1-propenyl-3-octyl-imidazolium	bf4	-7.84335525	-10.39362	0.15400321
1-propenyl-3-octyl-imidazolium	bis(fluorosulfonyl)imide	-5.64642076	-11.89218	0.282336704
1-propenyl-3-octyl-imidazolium	bis(trifluoromethylsulfonyl)methane	-6.77695562	-11.38635	0.218786411
1-propenyl-3-octyl-imidazolium	clo4	-7.41437261	-10.945	0.182057216
1-propenyl-3-octyl-imidazolium	dicyanamide	-8.63851642	-10.92671	0.131631108
1-propenyl-3-octyl-imidazolium	ethylsulfate	-9.22641212	-10.40713	0.101124452
1-propenyl-3-octyl-imidazolium	hso4	-7.12227651	-10.31235	0.179837957
1-propenyl-3-octyl-imidazolium	i	-9.2603301	-10.54244	0.10148568
1-propenyl-3-octyl-imidazolium	methylsulfate	-9.17757732	-10.28459	0.101445378
1-propenyl-3-octyl-imidazolium	octylsulfate	-9.22740871	-11.11946	0.10995888
1-propenyl-3-octyl-imidazolium	perfluorobutanesulfonate	-8.02432335	-10.714	0.152877505
1-propenyl-3-octyl-imidazolium	pf6	-6.13135162	-10.85372	0.232141589
1-propenyl-3-octyl-imidazolium	sbf6	-5.56549852	-11.18019	0.264803363
1-propenyl-3-octyl-imidazolium	tetracyanoborate	-6.5740618	-11.80265	0.237936438
1-propenyl-3-octyl-imidazolium	tf2n	-6.69793421	-11.26234	0.219159022
1-propenyl-3-octyl-imidazolium	thiocyanate	-8.45170934	-11.34543	0.14602067
1-propenyl-3-octyl-imidazolium	tricyanomethane	-7.46883487	-11.49424	0.191239919
1-propenyl-3-octyl-imidazolium	trifluoromethane-sulfonate	-8.06883342	-10.77216	0.152146241
1-propenyl-3-octyl-imidazolium	trifluoromethyltrifluoroborate	-6.47712552	-10.98065	0.221359946
1-propyl-2-3-methyl-imidazolium	bf4	-10.24379252	-7.74466	0.041684966
1-propyl-2-3-methyl-imidazolium	bis(fluorosulfonyl)imide	-8.35829654	-10.78322	0.140708439
1-propyl-2-3-methyl-imidazolium	bis(trifluoromethylsulfonyl)methane	-8.79181675	-10.28764	0.116086382
1-propyl-2-3-methyl-imidazolium	clo4	-10.04572295	-8.55391	0.053743073

1-propyl-2-3-methyl-imidazolium	i	-10.57357393	-6.97999	0.02852013
1-propyl-2-3-methyl-imidazolium	octylsulfate	-10.14229835	-10.08235	0.063298311
1-propyl-2-3-methyl-imidazolium	perfluorobutanesulfonate	-9.58201549	-9.3422	0.075985593
1-propyl-2-3-methyl-imidazolium	pf6	-9.16191611	-8.94673	0.084958926
1-propyl-2-3-methyl-imidazolium	sbf6	-8.49321968	-9.66888	0.11753144
1-propyl-2-3-methyl-imidazolium	tetracyanoborate	-8.79756197	-10.65409	0.121179062
1-propyl-2-3-methyl-imidazolium	tf2n	-8.88029716	-10.10496	0.11016148
1-propyl-2-3-methyl-imidazolium	tricyanomethane	-9.40874289	-9.96731	0.089018701
1-propyl-2-3-methyl-imidazolium	trifluoromethane-sulfonate	-9.80937981	-8.87994	0.063912416
1-propyl-2-3-methyl-imidazolium	trifluoromethyltrifluoroborate	-9.05906368	-9.25703	0.092311692
1-propyl-3-methyl-imidazolium	bf4	-9.14107526	-7.82789	0.071222085
1-propyl-3-methyl-imidazolium	bis(fluorosulfonyl)imide	-5.84416532	-10.95151	0.246566432
1-propyl-3-methyl-imidazolium	bis(trifluoromethylsulfonyl)methane	-6.81891349	-10.40958	0.19367641
1-propyl-3-methyl-imidazolium	clo4	-8.66632715	-8.68125	0.096560693
1-propyl-3-methyl-imidazolium	i	-10.09229472	-6.97074	0.039124692
1-propyl-3-methyl-imidazolium	octylsulfate	-9.2775861	-10.30243	0.09787914
1-propyl-3-methyl-imidazolium	perfluorobutanesulfonate	-8.15897186	-9.47348	0.125782511
1-propyl-3-methyl-imidazolium	pf6	-7.05942658	-9.03616	0.153230433
1-propyl-3-methyl-imidazolium	sbf6	-5.97898473	-9.77073	0.208173581
1-propyl-3-methyl-imidazolium	tetracyanoborate	-6.84475768	-10.89242	0.204143601
1-propyl-3-methyl-imidazolium	tf2n	-6.77804318	-10.21346	0.190530152
1-propyl-3-methyl-imidazolium	tricyanomethane	-7.98955759	-10.27188	0.146165846
1-propyl-3-methyl-imidazolium	trifluoromethane-sulfonate	-8.61610121	-9.06647	0.103993023
1-propyl-3-methyl-imidazolium	trifluoromethyltrifluoroborate	-7.09214877	-9.38454	0.160046585
1-propylpyridinium	bf4	-9.48932181	-7.73474	0.061050194
1-propylpyridinium	bis(fluorosulfonyl)imide	-6.43764693	-10.94217	0.221996358
1-propylpyridinium	bis(trifluoromethylsulfonyl)methane	-7.21084939	-10.38789	0.178136879
1-propylpyridinium	clo4	-9.07922742	-8.60904	0.083120943
1-propylpyridinium	i	-10.28322091	-6.77949	0.033469197
1-propylpyridinium	octylsulfate	-9.33087402	-10.32463	0.096123935
1-propylpyridinium	perfluorobutanesulfonate	-8.35449538	-9.44503	0.118662966
1-propylpyridinium	pf6	-7.63538132	-8.97427	0.133603582
1-propylpyridinium	sbf6	-6.5898959	-9.72944	0.185513685
1-propylpyridinium	tetracyanoborate	-7.31854223	-10.89776	0.184967622
1-propylpyridinium	tf2n	-7.22230263	-10.18817	0.173314428
1-propylpyridinium	tricyanomethane	-8.30892035	-10.27269	0.134114364
1-propylpyridinium	trifluoromethane-sulfonate	-8.81106029	-9.02793	0.097184237
1-propylpyridinium	trifluoromethyltrifluoroborate	-7.53872619	-9.33772	0.144093944
1-tetradecyl-3-methyl-imidazolium	2-(2-methoxyethoxy)ethylsulfate	-9.51099283	-10.71996	0.093667778
1-tetradecyl-3-methyl-imidazolium	bf4	-7.8950567	-10.9734	0.162898771
1-tetradecyl-3-methyl-imidazolium	bis(fluorosulfonyl)imide	-6.08158949	-12.15257	0.269679858
1-tetradecyl-3-methyl-imidazolium	bis(trifluoromethylsulfonyl)methane	-7.12803472	-11.69453	0.210572349
1-tetradecyl-3-methyl-imidazolium	clo4	-7.51987053	-11.43999	0.187902272
1-tetradecyl-3-methyl-imidazolium	dicyanamide	-8.72923065	-11.37837	0.134613855
1-tetradecyl-3-methyl-imidazolium	ethylsulfate	-9.27566832	-10.91615	0.105456096
1-tetradecyl-3-methyl-imidazolium	hso4	-6.98386747	-10.93085	0.19936641
1-tetradecyl-3-methyl-imidazolium	i	-9.20140685	-11.23605	0.112512112
1-tetradecyl-3-methyl-imidazolium	methylsulfate	-9.1876752	-10.85301	0.108250392
1-tetradecyl-3-methyl-imidazolium	octylsulfate	-9.40376643	-11.40684	0.105928349
1-tetradecyl-3-methyl-imidazolium	perfluorobutanesulfonate	-8.26687871	-11.11562	0.150035193
1-tetradecyl-3-methyl-imidazolium	pf6	-6.4221034	-11.31246	0.232162766
1-tetradecyl-3-methyl-imidazolium	saccharin	-9.09879885	-11.2076	0.116485154
1-tetradecyl-3-methyl-imidazolium	sbf6	-5.98590814	-11.56168	0.257718994
1-tetradecyl-3-methyl-imidazolium	tetracyanoborate	-6.8846326	-12.07055	0.230261027
1-tetradecyl-3-methyl-imidazolium	tf2n	-7.05526875	-11.5923	0.211486825
1-tetradecyl-3-methyl-imidazolium	thiocyanate	-8.48119765	-11.82876	0.152484486
1-tetradecyl-3-methyl-imidazolium	tricyanomethane	-7.68416261	-11.82033	0.188303174
1-tetradecyl-3-methyl-imidazolium	trifluoromethane-sulfonate	-8.25000554	-11.2299	0.152692273
1-tetradecyl-3-methyl-imidazolium	trifluoromethyltrifluoroborate	-6.78756963	-11.40279	0.218724091
3-(cyanomethyl)-1-methyl-imidazolium	bf4	-9.1695457	-7.38375	0.064822082
3-(cyanomethyl)-1-methyl-imidazolium	bis(fluorosulfonyl)imide	-1.17146091	-11.18327	0.449854118
3-(cyanomethyl)-1-methyl-imidazolium	bis(trifluoromethylsulfonyl)methane	-3.27897693	-10.55029	0.335433073
3-(cyanomethyl)-1-methyl-imidazolium	clo4	-8.04834404	-8.53698	0.112651529

3-(cyanomethyl)-1-methyl-imidazolium	i	-10.37131775	-4.49247	0.015495451
3-(cyanomethyl)-1-methyl-imidazolium	octylsulfate	-7.1147167	-10.77972	0.190620922
3-(cyanomethyl)-1-methyl-imidazolium	perfluorobutanesulfonate	-5.30166245	-9.6194	0.227457645
3-(cyanomethyl)-1-methyl-imidazolium	pf6	-3.16404304	-8.95599	0.274305343
3-(cyanomethyl)-1-methyl-imidazolium	sbf6	-0.78284052	-9.75793	0.391478177
3-(cyanomethyl)-1-methyl-imidazolium	tetracyanoborate	-3.43571797	-11.41376	0.363734862
3-(cyanomethyl)-1-methyl-imidazolium	tf2n	-3.21171288	-10.31082	0.328260347
3-(cyanomethyl)-1-methyl-imidazolium	thiocyanate	-9.55414411	-8.42971	0.06696139
3-(cyanomethyl)-1-methyl-imidazolium	tricyanomethane	-5.51812689	-10.99189	0.261144744
3-(cyanomethyl)-1-methyl-imidazolium	trifluoromethane-sulfonate	-6.62450536	-9.31431	0.174008941
3-(cyanomethyl)-1-methyl-imidazolium	trifluoromethyltrifluoroborate	-3.2410261	-9.48976	0.293651992
3-methyl-1-octyl-pyridinium	2-(2-methoxyethoxy)ethylsulfate	-9.98198744	-9.87951	0.067408829
3-methyl-1-octyl-pyridinium	bf4	-8.83103238	-9.95121	0.109780109
3-methyl-1-octyl-pyridinium	bis(fluorosulfonyl)imide	-7.24846388	-11.63225	0.203852414
3-methyl-1-octyl-pyridinium	bis(trifluoromethylsulfonyl)methane	-8.027291	-11.12879	0.160282339
3-methyl-1-octyl-pyridinium	clo4	-8.55078799	-10.54229	0.129197679
3-methyl-1-octyl-pyridinium	ethylsulfate	-9.7788226	-9.98773	0.075772229
3-methyl-1-octyl-pyridinium	i	-9.85786566	-10.05473	0.073526993
3-methyl-1-octyl-pyridinium	methylsulfate	-9.75440062	-9.83271	0.075117833
3-methyl-1-octyl-pyridinium	octylsulfate	-9.78560884	-10.8278	0.083768912
3-methyl-1-octyl-pyridinium	perfluorobutanesulfonate	-8.93523438	-10.40504	0.112282264
3-methyl-1-octyl-pyridinium	pf6	-7.63326258	-10.49706	0.164130377
3-methyl-1-octyl-pyridinium	sbf6	-7.21331521	-10.86797	0.188599635
3-methyl-1-octyl-pyridinium	tetracyanoborate	-7.83721968	-11.53378	0.175943847
3-methyl-1-octyl-pyridinium	tf2n	-8.03689696	-10.99937	0.15753903
3-methyl-1-octyl-pyridinium	thiocyanate	-9.21262876	-10.88614	0.107654013
3-methyl-1-octyl-pyridinium	tricyanomethane	-8.4442728	-11.15914	0.143328349
3-methyl-1-octyl-pyridinium	trifluoromethane-sulfonate	-8.9113396	-10.38855	0.112969967
3-methyl-1-octyl-pyridinium	trifluoromethyltrifluoroborate	-7.81156112	-10.63435	0.159834708
3-methyl-imidazolium	bf4	-7.98333457	-6.54629	0.078053646
3-methyl-imidazolium	bis(fluorosulfonyl)imide	1.97406205	-11.22705	0.585126047
3-methyl-imidazolium	bis(trifluoromethylsulfonyl)methane	-1.40201051	-10.53368	0.407993944
3-methyl-imidazolium	clo4	-6.72835258	-7.9598	0.137660241
3-methyl-imidazolium	octylsulfate	-7.1561222	-10.65043	0.186078959
3-methyl-imidazolium	perfluorobutanesulfonate	-4.65703226	-9.46446	0.244537511
3-methyl-imidazolium	pf6	-0.8013672	-8.53199	0.326651705
3-methyl-imidazolium	sbf6	2.46665813	-9.53277	0.491064298
3-methyl-imidazolium	tetracyanoborate	-1.60079476	-11.43998	0.44424802
3-methyl-imidazolium	tf2n	-1.11162632	-10.27082	0.405950873
3-methyl-imidazolium	thiocyanate	-9.21844888	-7.82406	0.069146348
3-methyl-imidazolium	tricyanomethane	-4.66815104	-10.90551	0.293212525
3-methyl-imidazolium	trifluoromethane-sulfonate	-6.10082026	-9.01577	0.183281754
3-methyl-imidazolium	trifluoromethyltrifluoroborate	-1.23532703	-9.19157	0.347002255
4-butyl-4-methylmorpholinium	bf4	-10.34269685	-7.71071	0.038888144
4-butyl-4-methylmorpholinium	bis(fluorosulfonyl)imide	-7.63508269	-10.81513	0.170419164
4-butyl-4-methylmorpholinium	bis(trifluoromethylsulfonyl)methane	-8.13502015	-10.29795	0.14113001
4-butyl-4-methylmorpholinium	clo4	-10.01704514	-8.52203	0.054315326
4-butyl-4-methylmorpholinium	i	-10.76450579	-6.68037	0.022730616
4-butyl-4-methylmorpholinium	octylsulfate	-9.69972576	-10.24229	0.081255594
4-butyl-4-methylmorpholinium	perfluorobutanesulfonate	-8.99857573	-9.38945	0.096099104
4-butyl-4-methylmorpholinium	pf6	-8.8022972	-8.96223	0.096513117
4-butyl-4-methylmorpholinium	sbf6	-7.88481289	-9.68435	0.139070484
4-butyl-4-methylmorpholinium	tetracyanoborate	-8.09064469	-10.74534	0.150792186
4-butyl-4-methylmorpholinium	tf2n	-8.20467473	-10.10666	0.135181112
4-butyl-4-methylmorpholinium	tricyanomethane	-8.88165496	-10.12472	0.110389729
4-butyl-4-methylmorpholinium	trifluoromethane-sulfonate	-9.48338323	-8.95343	0.074906318
4-butyl-4-methylmorpholinium	trifluoromethyltrifluoroborate	-8.6044134	-9.2918	0.107839124
4-ethyl-4-methylmorpholinium	bf4	-11.35942072	-5.23999	0.00696687
4-ethyl-4-methylmorpholinium	bis(fluorosulfonyl)imide	-7.89587785	-10.37781	0.151692122
4-ethyl-4-methylmorpholinium	bis(trifluoromethylsulfonyl)methane	-8.23205263	-9.85998	0.129933241
4-ethyl-4-methylmorpholinium	clo4	-11.13514532	-6.31981	0.013795255
4-ethyl-4-methylmorpholinium	i	-10.56376544	-2.98216	0.004232785
4-ethyl-4-methylmorpholinium	octylsulfate	-9.78942414	-9.88743	0.074403507

4-ethyl-4-methylmorpholinium	perfluorobutanesulfonate	-9.18502353	-8.78967	0.082243079
4-ethyl-4-methylmorpholinium	pf6	-9.98650758	-7.6635	0.047607452
4-ethyl-4-methylmorpholinium	sbf6	-8.41670359	-8.90633	0.107778862
4-ethyl-4-methylmorpholinium	tetracyanoborate	-8.47187733	-10.28715	0.128189275
4-ethyl-4-methylmorpholinium	tf2n	-8.33196412	-9.62318	0.122400177
4-ethyl-4-methylmorpholinium	tricyanomethane	-9.56620584	-9.31786	0.076249142
4-ethyl-4-methylmorpholinium	trifluoromethane-sulfonate	-10.1578628	-7.79822	0.044334441
4-ethyl-4-methylmorpholinium	trifluoromethyltrifluoroborate	-9.44213207	-8.29252	0.068646842
4-methyl-1-octyl-pyridinium	2-(2-methoxyethoxy)ethylsulfate	-9.9472576	-9.90474	0.06888465
4-methyl-1-octyl-pyridinium	bf4	-8.76629513	-9.98417	0.112610015
4-methyl-1-octyl-pyridinium	bis(fluorosulfonyl)imide	-7.16241238	-11.65156	0.208086787
4-methyl-1-octyl-pyridinium	bis(trifluoromethylsulfonyl)methane	-7.95571655	-11.14758	0.163623841
4-methyl-1-octyl-pyridinium	clo4	-8.4812714	-10.57373	0.132415578
4-methyl-1-octyl-pyridinium	ethylsulfate	-9.74132678	-10.01758	0.077437519
4-methyl-1-octyl-pyridinium	i	-9.81976681	-10.09668	0.075332039
4-methyl-1-octyl-pyridinium	methylsulfate	-9.71488865	-9.8658	0.076864198
4-methyl-1-octyl-pyridinium	octylsulfate	-9.74977834	-10.84713	0.085409807
4-methyl-1-octyl-pyridinium	perfluorobutanesulfonate	-8.87874213	-10.42711	0.114763407
4-methyl-1-octyl-pyridinium	pf6	-7.54846565	-10.52306	0.167954789
4-methyl-1-octyl-pyridinium	sbf6	-7.12383792	-10.89033	0.192733644
4-methyl-1-octyl-pyridinium	tetracyanoborate	-7.76437737	-11.55351	0.179513284
4-methyl-1-octyl-pyridinium	tf2n	-7.96129195	-11.01851	0.161008792
4-methyl-1-octyl-pyridinium	thiocyanate	-9.16027635	-10.92401	0.110267793
4-methyl-1-octyl-pyridinium	tricyanomethane	-8.38338921	-11.18376	0.146289214
4-methyl-1-octyl-pyridinium	trifluoromethane-sulfonate	-8.85716018	-10.41674	0.115447259
4-methyl-1-octyl-pyridinium	trifluoromethyltrifluoroborate	-7.73240665	-10.65936	0.163449408
4-methyl-n-butylpyridinium	bf4	-9.25542948	-8.65156	0.078375296
4-methyl-n-butylpyridinium	bis(fluorosulfonyl)imide	-7.14869538	-11.10569	0.196523571
4-methyl-n-butylpyridinium	bis(trifluoromethylsulfonyl)methane	-7.88231858	-10.59155	0.156234523
4-methyl-n-butylpyridinium	clo4	-8.94041982	-9.39258	0.098096453
4-methyl-n-butylpyridinium	i	-10.17321884	-8.34257	0.048277197
4-methyl-n-butylpyridinium	octylsulfate	-9.71645371	-10.3721	0.08194235
4-methyl-n-butylpyridinium	perfluorobutanesulfonate	-8.87250514	-9.7269	0.10510543
4-methyl-n-butylpyridinium	pf6	-7.84678239	-9.53445	0.137554577
4-methyl-n-butylpyridinium	sbf6	-7.19913267	-10.10354	0.172313826
4-methyl-n-butylpyridinium	tetracyanoborate	-7.82194707	-11.01138	0.166629326
4-methyl-n-butylpyridinium	tf2n	-7.90074755	-10.4244	0.152378635
4-methyl-n-butylpyridinium	tricyanomethane	-8.55940589	-10.4774	0.127847607
4-methyl-n-butylpyridinium	trifluoromethane-sulfonate	-9.03009638	-9.47826	0.096229136
4-methyl-n-butylpyridinium	trifluoromethyltrifluoroborate	-7.90622262	-9.7763	0.140041623
choline	bf4	-8.11541757	-4.38452	0.037086533
choline	bis(fluorosulfonyl)imide	0.84890154	-10.69243	0.505370018
choline	bis(trifluoromethylsulfonyl)methane	-2.15879644	-10.01742	0.35475964
choline	clo4	-6.75522496	-5.74193	0.083357112
choline	perfluorobutanesulfonate	-5.70433081	-8.86106	0.191395543
choline	pf6	-2.78597886	-7.62189	0.228933808
choline	sbf6	0.51690721	-9.05459	0.396212981
choline	tetracyanoborate	-2.89997706	-10.61462	0.352978932
choline	tf2n	-1.74510262	-9.76238	0.357679493
choline	tricyanomethane	-6.28586512	-9.62731	0.193524521
choline	trifluoromethane-sulfonate	-7.45326468	-7.79917	0.114858602
choline	trifluoromethyltrifluoroborate	-3.34216114	-8.38198	0.245543663
dibutylimidazolium	2-(2-methoxyethoxy)ethylsulfate	-9.6790104	-9.65448	0.075970254
dibutylimidazolium	bf4	-8.20078451	-9.60791	0.126688705
dibutylimidazolium	bis(fluorosulfonyl)imide	-5.80050271	-11.49682	0.263995318
dibutylimidazolium	bis(trifluoromethylsulfonyl)methane	-6.93285243	-10.98523	0.202720886
dibutylimidazolium	clo4	-7.75695475	-10.25115	0.154550752
dibutylimidazolium	ethylsulfate	-9.47298778	-9.73332	0.084041719
dibutylimidazolium	i	-9.57190761	-9.63715	0.079515817
dibutylimidazolium	methylsulfate	-9.45927168	-9.53246	0.082243503
dibutylimidazolium	octylsulfate	-9.37892763	-10.71792	0.098913214
dibutylimidazolium	perfluorobutanesulfonate	-8.22097368	-10.22007	0.136531071
dibutylimidazolium	pf6	-6.40886954	-10.22982	0.204797005

dibutylimidazolium	sbf6	-5.76404707	-10.65271	0.241230139
dibutylimidazolium	tetracyanoborate	-6.73086347	-11.40902	0.221321193
dibutylimidazolium	tf2n	-6.85774335	-10.84075	0.202391642
dibutylimidazolium	thiocyanate	-8.77622133	-10.65219	0.121996172
dibutylimidazolium	tricyanomethane	-7.68180798	-11.00722	0.172331935
dibutylimidazolium	trifluoromethane-sulfonate	-8.31832674	-10.15653	0.131812183
dibutylimidazolium	trifluoromethyltrifluoroborate	-6.71899153	-10.40196	0.197331063
ethyl-dimethyl-2-methoxyethylammonium	bf4	-10.72908436	-6.84503	0.024346977
ethyl-dimethyl-2-methoxyethylammonium	bis(fluorosulfonyl)imide	-8.53522356	-10.50549	0.129226643
ethyl-dimethyl-2-methoxyethylammonium	bis(trifluoromethylsulfonyl)methane	-8.83674757	-10.04965	0.110981086
ethyl-dimethyl-2-methoxyethylammonium	clo4	-10.53152989	-7.71657	0.034080625
ethyl-dimethyl-2-methoxyethylammonium	i	-10.70572278	-5.74103	0.018825413
ethyl-dimethyl-2-methoxyethylammonium	octylsulfate	-10.14855412	-9.9269	0.061809191
ethyl-dimethyl-2-methoxyethylammonium	perfluorobutanesulfonate	-9.62611582	-9.06013	0.071532597
ethyl-dimethyl-2-methoxyethylammonium	pf6	-9.68090853	-8.36068	0.062566262
ethyl-dimethyl-2-methoxyethylammonium	sbf6	-8.84167174	-9.25465	0.099446057
ethyl-dimethyl-2-methoxyethylammonium	tetracyanoborate	-8.87983708	-10.3971	0.114298056
ethyl-dimethyl-2-methoxyethylammonium	tf2n	-8.93712676	-9.84768	0.104501232
ethyl-dimethyl-2-methoxyethylammonium	tricyanomethane	-9.58540395	-9.59493	0.078592162
ethyl-dimethyl-2-methoxyethylammonium	trifluoromethane-sulfonate	-10.06650249	-8.38279	0.051675328
ethyl-dimethyl-2-methoxyethylammonium	trifluoromethyltrifluoroborate	-9.44937654	-8.77224	0.073912298
methyl-trioctyl-ammonium	2-(2-methoxyethoxy)ethylsulfate	-10.93363309	-10.85401	0.037491581
methyl-trioctyl-ammonium	bf4	-10.50386657	-11.22124	0.057267034
methyl-trioctyl-ammonium	bis(fluorosulfonyl)imide	-10.24371663	-12.24011	0.076053287
methyl-trioctyl-ammonium	bis(trifluoromethylsulfonyl)methane	-10.50534312	-11.82557	0.061076049
methyl-trioctyl-ammonium	clo4	-10.46092625	-11.63193	0.061799547
methyl-trioctyl-ammonium	dicyanamide	-10.6076873	-11.25343	0.053068846
methyl-trioctyl-ammonium	ethylsulfate	-10.875628	-10.98786	0.04046562
methyl-trioctyl-ammonium	hso4	-8.00734626	-11.05452	0.159762665
methyl-trioctyl-ammonium	i	-10.68354919	-11.43181	0.050842625
methyl-trioctyl-ammonium	methylsulfate	-10.80998497	-10.95976	0.043028532
methyl-trioctyl-ammonium	octylsulfate	-11.12969547	-11.36759	0.031316391
methyl-trioctyl-ammonium	perfluorobutanesulfonate	-10.90205744	-11.26676	0.04064046
methyl-trioctyl-ammonium	pf6	-10.25459215	-11.56017	0.070378161
methyl-trioctyl-ammonium	saccharin	-10.65565186	-11.18985	0.050671872
methyl-trioctyl-ammonium	sbf6	-10.21988499	-11.76903	0.073521257
methyl-trioctyl-ammonium	tetracyanoborate	-10.26736537	-12.07643	0.07370656
methyl-trioctyl-ammonium	tf2n	-10.63396918	-11.74813	0.054821724
methyl-trioctyl-ammonium	thiocyanate	-10.50295268	-11.76121	0.06077091
methyl-trioctyl-ammonium	tricyanomethane	-10.39029808	-11.78127	0.065960552
methyl-trioctyl-ammonium	trifluoromethane-sulfonate	-10.6848529	-11.34864	0.050324092
methyl-trioctyl-ammonium	trifluoromethyltrifluoroborate	-10.34879189	-11.60239	0.066546677
n-(3-sulfopropyl)pyridinium	dicyanamide	-6.82622587	-9.70481	0.17660557
n-(3-sulfopropyl)pyridinium	perfluorobutanesulfonate	-0.3058595	-9.79391	0.410305128
n-(3-sulfopropyl)pyridinium	thiocyanate	-7.02231263	-9.0928	0.155712199
n-(3-sulfopropyl)pyridinium	tricyanomethane	-0.70491192	-10.93985	0.456639715
n,n-diethyl-n-methylethylammonium	bf4	-11.0245961	-6.29831	0.015818494
n,n-diethyl-n-methylethylammonium	bis(fluorosulfonyl)imide	-9.27178488	-10.28028	0.097827896
n,n-diethyl-n-methylethylammonium	bis(trifluoromethylsulfonyl)methane	-9.43451577	-9.85946	0.086844568
n,n-diethyl-n-methylethylammonium	clo4	-10.92125366	-7.21541	0.021848054
n,n-diethyl-n-methylethylammonium	i	-10.70149951	-5.1118	0.015447737
n,n-diethyl-n-methylethylammonium	octylsulfate	-10.48416015	-9.69428	0.048165012
n,n-diethyl-n-methylethylammonium	perfluorobutanesulfonate	-10.12646076	-8.81185	0.053464592
n,n-diethyl-n-methylethylammonium	pf6	-10.32202405	-7.96348	0.041257132
n,n-diethyl-n-methylethylammonium	sbf6	-9.58341418	-8.95305	0.071747539
n,n-diethyl-n-methylethylammonium	tetracyanoborate	-9.49582488	-10.14866	0.087882859
n,n-diethyl-n-methylethylammonium	tf2n	-9.57207516	-9.65128	0.079662937
n,n-diethyl-n-methylethylammonium	tricyanomethane	-10.08440987	-9.22944	0.05826985
n,n-diethyl-n-methylethylammonium	trifluoromethane-sulfonate	-10.48783973	-7.9892	0.036971768
n,n-diethyl-n-methylethylammonium	trifluoromethyltrifluoroborate	-10.07421875	-8.41514	0.051726089
nh4	bis(trifluoromethylsulfonyl)methane	8.07196642	-11.29893	0.849851996
nh4	perfluorobutanesulfonate	2.81159344	-10.45665	0.567050768
nh4	tf2n	8.88455614	-10.74393	0.830001473

octyltrimethylammonium	2-(2-methoxyethoxy)ethylsulfate	-10.24880153	-9.58419	0.055574032
octyltrimethylammonium	bf4	-9.50772509	-9.47479	0.079940803
octyltrimethylammonium	bis(fluorosulfonyl)imide	-7.86157434	-11.43164	0.172945599
octyltrimethylammonium	bis(trifluoromethylsulfonyl)methane	-8.46859018	-10.90211	0.138182673
octyltrimethylammonium	clo4	-9.26234371	-10.10937	0.096084372
octyltrimethylammonium	ethylsulfate	-10.08083125	-9.65053	0.061931194
octyltrimethylammonium	i	-10.29594295	-9.34654	0.052188557
octyltrimethylammonium	methylsulfate	-10.12426313	-9.41782	0.058507556
octyltrimethylammonium	octylsulfate	-9.91004489	-10.69486	0.077514125
octyltrimethylammonium	perfluorobutanesulfonate	-9.21224031	-10.12824	0.098175063
octyltrimethylammonium	pf6	-8.37349153	-10.13477	0.129399251
octyltrimethylammonium	sbf6	-7.90725932	-10.57321	0.154911493
octyltrimethylammonium	tetracyanoborate	-8.20295555	-11.34212	0.156625185
octyltrimethylammonium	tf2n	-8.53268574	-10.75453	0.133246392
octyltrimethylammonium	thiocyanate	-9.57595357	-10.41604	0.087791726
octyltrimethylammonium	tricyanomethane	-8.72136354	-10.92361	0.128198392
octyltrimethylammonium	trifluoromethane-sulfonate	-9.25955041	-10.04898	0.095444727
octyltrimethylammonium	trifluoromethyltrifluoroborate	-8.3987257	-10.30559	0.13126016
tetradecyltrimethylammonium	2-(2-methoxyethoxy)ethylsulfate	-10.12526908	-10.50261	0.067374789
tetradecyltrimethylammonium	bf4	-9.21057231	-10.71009	0.105530789
tetradecyltrimethylammonium	bis(fluorosulfonyl)imide	-8.24651176	-11.98161	0.165693958
tetradecyltrimethylammonium	bis(trifluoromethylsulfonyl)methane	-8.7863324	-11.50972	0.134067872
tetradecyltrimethylammonium	clo4	-9.04221451	-11.18873	0.1186219
tetradecyltrimethylammonium	dicyanamide	-9.38414167	-11.08373	0.102990299
tetradecyltrimethylammonium	ethylsulfate	-9.92671017	-10.67544	0.076673559
tetradecyltrimethylammonium	hso4	-7.49995622	-10.64477	0.172356417
tetradecyltrimethylammonium	i	-9.90558832	-10.9174	0.079748884
tetradecyltrimethylammonium	methylsulfate	-9.88107671	-10.59208	0.077704341
tetradecyltrimethylammonium	octylsulfate	-10.03459128	-11.23553	0.077228063
tetradecyltrimethylammonium	perfluorobutanesulfonate	-9.40417396	-10.89665	0.099982815
tetradecyltrimethylammonium	pf6	-8.45467673	-11.08938	0.141767489
tetradecyltrimethylammonium	sbf6	-8.22377911	-11.36181	0.156071804
tetradecyltrimethylammonium	tetracyanoborate	-8.49016352	-11.87852	0.152873161
tetradecyltrimethylammonium	tf2n	-8.84649663	-11.40241	0.12991224
tetradecyltrimethylammonium	thiocyanate	-9.31599875	-11.50344	0.110878389
tetradecyltrimethylammonium	tricyanomethane	-8.84691361	-11.59094	0.132582161
tetradecyltrimethylammonium	trifluoromethane-sulfonate	-9.28946417	-10.98339	0.105710613
tetradecyltrimethylammonium	trifluoromethyltrifluoroborate	-8.56653759	-11.17977	0.13851731
tetra-ethylammonium	bf4	-11.04932371	-6.86085	0.017504529
tetra-ethylammonium	bis(fluorosulfonyl)imide	-9.73687446	-10.35138	0.08095308
tetra-ethylammonium	bis(trifluoromethylsulfonyl)methane	-9.86917021	-9.93581	0.071991578
tetra-ethylammonium	clo4	-10.98732526	-7.71592	0.0223723
tetra-ethylammonium	i	-10.84737082	-6.00465	0.017774308
tetra-ethylammonium	octylsulfate	-10.70544636	-9.68855	0.040378915
tetra-ethylammonium	perfluorobutanesulfonate	-10.45634919	-8.91961	0.043997294
tetra-ethylammonium	pf6	-10.5028487	-8.27972	0.038431487
tetra-ethylammonium	sbf6	-9.9646201	-9.13501	0.061357539
tetra-ethylammonium	tetracyanoborate	-9.88070859	-10.20075	0.074054712
tetra-ethylammonium	tf2n	-10.03114637	-9.74466	0.064476395
tetra-ethylammonium	tricyanomethane	-10.30035991	-9.3501	0.052067299
tetra-ethylammonium	trifluoromethane-sulfonate	-10.64493637	-8.22374	0.034081998
tetra-ethylammonium	trifluoromethyltrifluoroborate	-10.31571037	-8.64592	0.046411118
tetramethylammonium	bf4	-11.52553232	-2.29161	0
tetramethylammonium	bis(fluorosulfonyl)imide	-7.62240823	-10.27741	0.160147152
tetramethylammonium	bis(trifluoromethylsulfonyl)methane	-8.13029893	-9.65482	0.129957947
tetramethylammonium	clo4	-11.52620257	-3.67574	0.002177793
tetramethylammonium	octylsulfate	-9.81873627	-9.75226	0.072044205
tetramethylammonium	perfluorobutanesulfonate	-9.23128563	-8.41276	0.076132133
tetramethylammonium	pf6	-11.04633224	-6.39096	0.015762458
tetramethylammonium	sbf6	-8.25409247	-8.43925	0.104900824
tetramethylammonium	tetracyanoborate	-8.51992692	-10.16411	0.12442589
tetramethylammonium	tf2n	-8.25480627	-9.37049	0.120767203
tetramethylammonium	tricyanomethane	-10.01635292	-8.79648	0.056729233

tetramethylammonium	trifluoromethane-sulfonate	-10.61984627	-6.81889	0.026548417
tetramethylammonium	trifluoromethyltrifluoroborate	-9.98954492	-7.53225	0.046368918
tetra-n-butylammonium	2-(2-methoxyethoxy)ethylsulfate	-11.0326879	-9.76568	0.0292214
tetra-n-butylammonium	bf4	-10.6899955	-9.96997	0.042476779
tetra-n-butylammonium	bis(fluorosulfonyl)imide	-10.31774155	-11.55548	0.067573118
tetra-n-butylammonium	bis(trifluoromethylsulfonyl)methane	-10.57303989	-11.07933	0.053479256
tetra-n-butylammonium	clo4	-10.6553676	-10.53327	0.046944006
tetra-n-butylammonium	ethylsulfate	-10.93824021	-9.80213	0.032721983
tetra-n-butylammonium	i	-10.75806632	-10.07465	0.040547803
tetra-n-butylammonium	methylsulfate	-10.90673644	-9.68807	0.033328145
tetra-n-butylammonium	octylsulfate	-11.12720017	-10.56656	0.028650212
tetra-n-butylammonium	perfluorobutanesulfonate	-10.98764861	-10.33043	0.033143413
tetra-n-butylammonium	pf6	-10.41486867	-10.53681	0.056351523
tetra-n-butylammonium	sbf6	-10.33057211	-10.87934	0.062119556
tetra-n-butylammonium	tetracyanoborate	-10.30164244	-11.35758	0.06682053
tetra-n-butylammonium	tf2n	-10.74470176	-10.9692	0.045757211
tetra-n-butylammonium	tricyanomethane	-10.40458363	-10.90637	0.059296716
tetra-n-butylammonium	trifluoromethane-sulfonate	-10.74823025	-10.27378	0.041956905
tetra-n-butylammonium	trifluoromethyltrifluoroborate	-10.45852475	-10.62413	0.055226242
tetra-n-butylphosphonium	2-(2-methoxyethoxy)ethylsulfate	-10.98885348	-9.8655	0.031183343
tetra-n-butylphosphonium	bf4	-10.62446879	-10.09252	0.045574599
tetra-n-butylphosphonium	bis(fluorosulfonyl)imide	-10.25128128	-11.63062	0.07105948
tetra-n-butylphosphonium	bis(trifluoromethylsulfonyl)methane	-10.51462142	-11.15234	0.056374037
tetra-n-butylphosphonium	clo4	-10.58609771	-10.64509	0.050320233
tetra-n-butylphosphonium	ethylsulfate	-10.89095797	-9.91775	0.034932711
tetra-n-butylphosphonium	i	-10.71249551	-10.20841	0.042952572
tetra-n-butylphosphonium	methylsulfate	-10.85709583	-9.81227	0.035655132
tetra-n-butylphosphonium	octylsulfate	-11.08369729	-10.64556	0.030644169
tetra-n-butylphosphonium	perfluorobutanesulfonate	-10.92955973	-10.41639	0.035732078
tetra-n-butylphosphonium	pf6	-10.34274929	-10.63868	0.059897553
tetra-n-butylphosphonium	sbf6	-10.26033651	-10.96957	0.065657622
tetra-n-butylphosphonium	tetracyanoborate	-10.24062218	-11.43351	0.070020994
tetra-n-butylphosphonium	tf2n	-10.6823153	-11.04413	0.04873727
tetra-n-butylphosphonium	tricyanomethane	-10.34440404	-10.99789	0.062406999
tetra-n-butylphosphonium	trifluoromethane-sulfonate	-10.68867534	-10.37916	0.044790967
tetra-n-butylphosphonium	trifluoromethyltrifluoroborate	-10.38999274	-10.72171	0.058607968
tetraoctylammonium	2-(2-methoxyethoxy)ethylsulfate	-11.52589108	-11.13266	0.013923565
tetraoctylammonium	bf4	-11.46533643	-11.56563	0.017263986
tetraoctylammonium	bis(fluorosulfonyl)imide	-11.52246144	-12.44202	0.016150447
tetraoctylammonium	bis(trifluoromethylsulfonyl)methane	-11.59505125	-12.06303	0.012189574
tetraoctylammonium	clo4	-11.4792957	-11.93035	0.017305969
tetraoctylammonium	dicyanamide	-11.43274968	-11.43041	0.018422074
tetraoctylammonium	ethylsulfate	-11.56874788	-11.24814	0.012288292
tetraoctylammonium	hso4	-8.45542412	-11.34899	0.145918805
tetraoctylammonium	i	-11.33020046	-11.73835	0.023628918
tetraoctylammonium	methylsulfate	-11.5092464	-11.24215	0.014801265
tetraoctylammonium	octylsulfate	-11.8441318	-11.5379	0.000631736
tetraoctylammonium	perfluorobutanesulfonate	-11.85856423	-11.54553	0
tetraoctylammonium	pf6	-11.46253138	-11.87549	0.01796807
tetraoctylammonium	saccharin	-11.32794664	-11.39462	0.022866279
tetraoctylammonium	sbf6	-11.51148164	-12.05057	0.016034861
tetraoctylammonium	tetracyanoborate	-11.41413466	-12.25934	0.020971431
tetraoctylammonium	tf2n	-11.77410943	-12.00108	0.003881939
tetraoctylammonium	thiocyanate	-11.34798317	-11.94481	0.023332692
tetraoctylammonium	tricyanomethane	-11.40786827	-11.9693	0.020648296
tetraoctylammonium	trifluoromethane-sulfonate	-11.61989061	-11.62377	0.010544244
tetraoctylammonium	trifluoromethyltrifluoroborate	-11.52629074	-11.89747	0.015109872
tetrapropylammonium	2-(2-methoxyethoxy)ethylsulfate	-11.00188087	-9.05207	0.027417347
tetrapropylammonium	bf4	-10.71504478	-8.93136	0.035943812
tetrapropylammonium	bis(fluorosulfonyl)imide	-10.00882168	-11.05649	0.076751365
tetrapropylammonium	bis(trifluoromethylsulfonyl)methane	-10.28163935	-10.58063	0.061878965
tetrapropylammonium	clo4	-10.65466778	-9.60017	0.041653337
tetrapropylammonium	i	-10.80333461	-8.84018	0.032713145

tetrapropylammonium	methylsulfate	-10.90737998	-8.73976	0.029035454
tetrapropylammonium	octylsulfate	-10.95217275	-10.13926	0.033673192
tetrapropylammonium	perfluorobutanesulfonate	-10.76536504	-9.72251	0.038456483
tetrapropylammonium	pf6	-10.28567507	-9.71837	0.055300156
tetrapropylammonium	sbf6	-10.07282245	-10.1999	0.066854415
tetrapropylammonium	tetracyanoborate	-10.03994849	-10.86746	0.073832397
tetrapropylammonium	tf2n	-10.44778979	-10.4415	0.05442998
tetrapropylammonium	tricyanomethane	-10.23526663	-10.29874	0.061532402
tetrapropylammonium	trifluoromethane-sulfonate	-10.62134906	-9.49469	0.042188329
tetrapropylammonium	trifluoromethyltrifluoroborate	-10.27445142	-9.87459	0.056866286
tributyl-ethyl-phosphonium	2-(2-methoxyethoxy)ethylsulfate	-10.99560329	-9.58228	0.029784302
tributyl-ethyl-phosphonium	bf4	-10.65544566	-9.7133	0.042270763
tributyl-ethyl-phosphonium	bis(fluorosulfonyl)imide	-10.18753931	-11.44077	0.072375736
tributyl-ethyl-phosphonium	bis(trifluoromethylsulfonyl)methane	-10.44725851	-10.95417	0.057875693
tributyl-ethyl-phosphonium	clo4	-10.61752724	-10.30681	0.047089918
tributyl-ethyl-phosphonium	ethylsulfate	-10.89130878	-9.60089	0.033469146
tributyl-ethyl-phosphonium	i	-10.77076422	-9.76734	0.03849741
tributyl-ethyl-phosphonium	methylsulfate	-10.87424038	-9.45552	0.033382355
tributyl-ethyl-phosphonium	octylsulfate	-11.03337333	-10.46685	0.03193624
tributyl-ethyl-phosphonium	perfluorobutanesulfonate	-10.87497473	-10.17341	0.036700175
tributyl-ethyl-phosphonium	pf6	-10.33120103	-10.33604	0.058165631
tributyl-ethyl-phosphonium	sbf6	-10.20844287	-10.71432	0.065795559
tributyl-ethyl-phosphonium	tetracyanoborate	-10.19441145	-11.24616	0.07054493
tributyl-ethyl-phosphonium	tf2n	-10.62058171	-10.83559	0.050072996
tributyl-ethyl-phosphonium	tricyanomethane	-10.31612128	-10.7684	0.061896968
tributyl-ethyl-phosphonium	trifluoromethane-sulfonate	-10.65995972	-10.08178	0.044202994
tributyl-ethyl-phosphonium	trifluoromethyltrifluoroborate	-10.35220759	-10.44004	0.058107286
tributylmethylammonium	2-(2-methoxyethoxy)ethylsulfate	-10.73467449	-9.49824	0.038342884
tributylmethylammonium	bf4	-10.20677523	-9.51704	0.056499826
tributylmethylammonium	bis(fluorosulfonyl)imide	-9.33498223	-11.35952	0.108331178
tributylmethylammonium	bis(trifluoromethylsulfonyl)methane	-9.73523443	-10.86849	0.086213571
tributylmethylammonium	clo4	-10.09618527	-10.13225	0.065415348
tributylmethylammonium	ethylsulfate	-10.60487609	-9.5197	0.042898481
tributylmethylammonium	i	-10.57720903	-9.53493	0.043937572
tributylmethylammonium	methylsulfate	-10.60186622	-9.33863	0.041924248
tributylmethylammonium	octylsulfate	-10.65304885	-10.47694	0.046713004
tributylmethylammonium	perfluorobutanesulfonate	-10.29173114	-10.0832	0.057793324
tributylmethylammonium	pf6	-9.60457032	-10.16676	0.084031171
tributylmethylammonium	sbf6	-9.36594272	-10.57625	0.097759467
tributylmethylammonium	tetracyanoborate	-9.46475559	-11.19799	0.100929819
tributylmethylammonium	tf2n	-9.85796405	-10.7382	0.079996422
tributylmethylammonium	tricyanomethane	-9.74155071	-10.72896	0.084558747
tributylmethylammonium	trifluoromethane-sulfonate	-10.16493465	-9.97556	0.061607247
tributylmethylammonium	trifluoromethyltrifluoroborate	-9.64001083	-10.29833	0.084091747
tributylmethylphosphonium	2-(2-methoxyethoxy)ethylsulfate	-10.83824441	-9.57563	0.035183278
tributylmethylphosphonium	bf4	-10.38774016	-9.65605	0.05127779
tributylmethylphosphonium	bis(fluorosulfonyl)imide	-9.70194768	-11.42471	0.093243806
tributylmethylphosphonium	bis(trifluoromethylsulfonyl)methane	-10.0395895	-10.93362	0.074416677
tributylmethylphosphonium	clo4	-10.31001575	-10.25645	0.058388956
tributylmethylphosphonium	ethylsulfate	-10.71740642	-9.6046	0.039506589
tributylmethylphosphonium	i	-10.65082317	-9.69397	0.042322652
tributylmethylphosphonium	methylsulfate	-10.70788691	-9.44349	0.038958535
tributylmethylphosphonium	octylsulfate	-10.80745374	-10.50456	0.040867342
tributylmethylphosphonium	perfluorobutanesulfonate	-10.53322429	-10.15615	0.049343444
tributylmethylphosphonium	pf6	-9.91151559	-10.28367	0.073665541
tributylmethylphosphonium	sbf6	-9.72712683	-10.67362	0.084576479
tributylmethylphosphonium	tetracyanoborate	-9.77331364	-11.24837	0.08841746
tributylmethylphosphonium	tf2n	-10.18390547	-10.80931	0.067527008
tributylmethylphosphonium	tricyanomethane	-9.97736992	-10.78277	0.075618755
tributylmethylphosphonium	trifluoromethane-sulfonate	-10.36588979	-10.06561	0.054933653
tributylmethylphosphonium	trifluoromethyltrifluoroborate	-9.93969547	-10.40041	0.073659829
tributyl-tetradecylphosphonium	2-(2-methoxyethoxy)ethylsulfate	-11.39795117	-10.81578	0.018587338
tributyl-tetradecylphosphonium	bf4	-11.30021296	-11.2342	0.023637398

tributyl-tetradecylphosphonium	bis(fluorosulfonyl)imide	-11.35080958	-12.2532	0.023944811
tributyl-tetradecylphosphonium	bis(trifluoromethylsulfonyl)methane	-11.43644721	-11.83993	0.019080453
tributyl-tetradecylphosphonium	clo4	-11.32259198	-11.64512	0.023732624
tributyl-tetradecylphosphonium	dicyanamide	-11.22206527	-11.12694	0.02662253
tributyl-tetradecylphosphonium	ethylsulfate	-11.40467849	-10.92314	0.018546551
tributyl-tetradecylphosphonium	hso4	-8.33056501	-11.00223	0.145481039
tributyl-tetradecylphosphonium	i	-11.16707232	-11.4083	0.029843732
tributyl-tetradecylphosphonium	methylsulfate	-11.34733111	-10.90266	0.020840299
tributyl-tetradecylphosphonium	octylsulfate	-11.68619517	-11.29498	0.007346716
tributyl-tetradecylphosphonium	perfluorobutanesulfonate	-11.70513384	-11.26298	0.006516269
tributyl-tetradecylphosphonium	pf6	-11.29720613	-11.59576	0.024725526
tributyl-tetradecylphosphonium	sbf6	-11.34121704	-11.80244	0.023293211
tributyl-tetradecylphosphonium	tetracyanoborate	-11.23290738	-12.05997	0.02893255
tributyl-tetradecylphosphonium	tf2n	-11.6290722	-11.76825	0.01029558
tributyl-tetradecylphosphonium	thiocyanate	-11.15484318	-11.66555	0.031228531
tributyl-tetradecylphosphonium	tricyanomethane	-11.21193956	-11.7324	0.028899442
tributyl-tetradecylphosphonium	trifluoromethane-sulfonate	-11.4396551	-11.32599	0.017916246
tributyl-tetradecylphosphonium	trifluoromethyltrifluoroborate	-11.35019952	-11.62595	0.02246404
triethylpentylammonium	2-(2-methoxyethoxy)ethylsulfate	-10.93536602	-8.93875	0.029050835
triethylpentylammonium	bf4	-10.66349467	-8.68452	0.036167677
triethylpentylammonium	bis(fluorosulfonyl)imide	-9.72489899	-10.9965	0.087926222
triethylpentylammonium	bis(trifluoromethylsulfonyl)methane	-10.00498638	-10.511	0.07212391
triethylpentylammonium	clo4	-10.58612176	-9.38058	0.042702189
triethylpentylammonium	i	-10.87957702	-8.45825	0.028579489
triethylpentylammonium	methylsulfate	-10.86979719	-8.55141	0.029301057
triethylpentylammonium	octylsulfate	-10.78587093	-10.13574	0.039833567
triethylpentylammonium	perfluorobutanesulfonate	-10.52370349	-9.63582	0.046409821
triethylpentylammonium	pf6	-10.10689303	-9.55259	0.060211116
triethylpentylammonium	sbf6	-9.80229549	-10.08283	0.07584277
triethylpentylammonium	tetracyanoborate	-9.83672954	-10.83219	0.081745123
triethylpentylammonium	tf2n	-10.16269261	-10.36253	0.064795502
triethylpentylammonium	tricyanomethane	-10.10302585	-10.24482	0.066096981
triethylpentylammonium	trifluoromethane-sulfonate	-10.46552879	-9.36339	0.046635834
triethylpentylammonium	trifluoromethyltrifluoroborate	-10.05593347	-9.73846	0.063548928
triethylsulfonium	bf4	-10.67034319	-7.15276	0.027344193
triethylsulfonium	bis(fluorosulfonyl)imide	-8.70382344	-10.67897	0.125261558
triethylsulfonium	bis(trifluoromethylsulfonyl)methane	-9.03978727	-10.17533	0.105201213
triethylsulfonium	clo4	-10.43133592	-8.06288	0.038993632
triethylsulfonium	i	-10.63872824	-6.21364	0.022648591
triethylsulfonium	octylsulfate	-10.22237361	-9.99892	0.059698796
triethylsulfonium	perfluorobutanesulfonate	-9.81478036	-9.16818	0.066532782
triethylsulfonium	pf6	-9.78794411	-8.56355	0.061479619
triethylsulfonium	sbf6	-9.05615145	-9.4114	0.094455692
triethylsulfonium	tetracyanoborate	-9.05743424	-10.54852	0.109491312
triethylsulfonium	tf2n	-9.14595458	-9.98035	0.098735044
triethylsulfonium	tricyanomethane	-9.698903	-9.76272	0.076383509
triethylsulfonium	trifluoromethane-sulfonate	-10.12363967	-8.57047	0.051569182
triethylsulfonium	trifluoromethyltrifluoroborate	-9.59433919	-8.94512	0.071318015
trihexyl-tetradecyl-phosphonium	2-(2-methoxyethoxy)ethylsulfate	-11.49834453	-11.18133	0.015159483
trihexyl-tetradecyl-phosphonium	bf4	-11.43637676	-11.6138	0.018631685
trihexyl-tetradecyl-phosphonium	bis(fluorosulfonyl)imide	-11.49806701	-12.47511	0.017379122
trihexyl-tetradecyl-phosphonium	bis(trifluoromethylsulfonyl)methane	-11.56870602	-12.09789	0.013456086
trihexyl-tetradecyl-phosphonium	clo4	-11.45083387	-11.97347	0.018687908
trihexyl-tetradecyl-phosphonium	dicyanamide	-11.39957288	-11.48257	0.019970743
trihexyl-tetradecyl-phosphonium	ethylsulfate	-11.53936308	-11.30089	0.013613926
trihexyl-tetradecyl-phosphonium	hso4	-8.43052862	-11.40334	0.147868277
trihexyl-tetradecyl-phosphonium	i	-11.30462687	-11.78861	0.024904392
trihexyl-tetradecyl-phosphonium	methylsulfate	-11.47966435	-11.296	0.016151305
trihexyl-tetradecyl-phosphonium	octylsulfate	-11.81509246	-11.58088	0.001911691
trihexyl-tetradecyl-phosphonium	perfluorobutanesulfonate	-11.82712412	-11.5871	0.001383519
trihexyl-tetradecyl-phosphonium	pf6	-11.4372199	-11.91715	0.019199552
trihexyl-tetradecyl-phosphonium	saccharin	-11.29990571	-11.44243	0.02420111
trihexyl-tetradecyl-phosphonium	sbf6	-11.48694149	-12.089	0.0172362

trihexyl-tetradecyl-phosphonium	tetracyanoborate	-11.38849978	-12.29399	0.022258178
trihexyl-tetradecyl-phosphonium	tf2n	-11.74638604	-12.03665	0.005175126
trihexyl-tetradecyl-phosphonium	thiocyanate	-11.31700981	-11.99029	0.02486472
trihexyl-tetradecyl-phosphonium	tricyanomethane	-11.37894495	-12.00984	0.022065443
trihexyl-tetradecyl-phosphonium	trifluoromethane-sulfonate	-11.58873472	-11.66953	0.011979117
trihexyl-tetradecyl-phosphonium	trifluoromethyltrifluoroborate	-11.49919153	-11.93844	0.016411888
triisobutyl-methyl-phosphonium	2-(2-methoxyethoxy)ethylsulfate	-10.82990189	-9.41563	0.034691798
triisobutyl-methyl-phosphonium	bf4	-10.38283239	-9.44326	0.049962314
triisobutyl-methyl-phosphonium	bis(fluorosulfonyl)imide	-9.62264035	-11.30262	0.095380442
triisobutyl-methyl-phosphonium	bis(trifluoromethylsulfonyl)methane	-9.98872711	-10.81982	0.075490188
triisobutyl-methyl-phosphonium	clo4	-10.28173351	-10.06286	0.058010258
triisobutyl-methyl-phosphonium	ethylsulfate	-10.71238741	-9.41373	0.038644683
triisobutyl-methyl-phosphonium	i	-10.57900076	-9.45126	0.043369306
triisobutyl-methyl-phosphonium	methylsulfate	-10.70297062	-9.23401	0.037979007
triisobutyl-methyl-phosphonium	octylsulfate	-10.80015772	-10.38561	0.040555013
triisobutyl-methyl-phosphonium	perfluorobutanesulfonate	-10.51806713	-10.01983	0.049042681
triisobutyl-methyl-phosphonium	pf6	-9.86767679	-10.10935	0.073681214
triisobutyl-methyl-phosphonium	sbf6	-9.66502278	-10.52287	0.085475374
triisobutyl-methyl-phosphonium	tetracyanoborate	-9.69062957	-11.11443	0.090548749
triisobutyl-methyl-phosphonium	tf2n	-10.12330475	-10.69031	0.068993049
triisobutyl-methyl-phosphonium	tricyanomethane	-9.92319182	-10.62085	0.076313042
triisobutyl-methyl-phosphonium	trifluoromethane-sulfonate	-10.35808967	-9.89192	0.053986949
triisobutyl-methyl-phosphonium	trifluoromethyltrifluoroborate	-9.90831492	-10.23785	0.073363604
trimethylethylammonium	bf4	-11.31729134	-4.30655	0.005163061
trimethylethylammonium	bis(fluorosulfonyl)imide	-8.26626935	-10.2263	0.134936918
trimethylethylammonium	bis(trifluoromethylsulfonyl)methane	-8.53216281	-9.71857	0.116953867
trimethylethylammonium	clo4	-11.19109356	-5.46808	0.010037043
trimethylethylammonium	octylsulfate	-10.01772508	-9.73555	0.064870546
trimethylethylammonium	perfluorobutanesulfonate	-9.4767844	-8.56442	0.070728198
trimethylethylammonium	pf6	-10.44840201	-7.07681	0.031944641
trimethylethylammonium	sbf6	-8.84898135	-8.58127	0.089611206
trimethylethylammonium	tetracyanoborate	-8.77351331	-10.11701	0.114287235
trimethylethylammonium	tf2n	-8.64719677	-9.46415	0.109041502
trimethylethylammonium	tricyanomethane	-9.85977519	-8.95937	0.063092213
trimethylethylammonium	trifluoromethane-sulfonate	-10.40121014	-7.33045	0.03476358
trimethylethylammonium	trifluoromethyltrifluoroborate	-9.86625493	-7.85416	0.052463775

Table S4. Isotherm parameters of [EtOHMIM][PF₆]@UiO-66-DES

		UiO-66	10%	20%	30%	40%
Langmuir	Q _{max}	45.85	134.17	227.57	190.05	160.79
	K _L	0.01484	0.0597	0.05224	0.05372	0.02596
	R ²	0.967	0.981	0.988	0.998	0.992
Freundlich	n	3.269	4.571	4.163	4.33	3.513
	K _F	6.052	35.598	52.932	46.266	26.442
	R ²	0.942	0.915	0.918	0.867	0.914
Temkin	K _T	0.292	1.898	1.647	1.304	0.463
	B _T	8.036	19.945	34.190	29.766	28.136
	R ²	0.973	0.987	0.988	0.963	0.988
R-P	a	0.0677	0.1732	0.1359	0.0595	0.0485
	K _R	1.208	13.791	18.690	10.638	5.214
	n _R	0.8575	0.9136	0.9168	0.9898	0.9359
Hill	R ²	0.978	0.996	0.998	0.998	0.996
	qh	54.97	149.49	250.40	191.76	168.70
	Kh	26.871	8.589	10.541	16.965	27.220
Hill	n _H	0.6884	0.6898	0.7318	0.9615	0.8745
	R ²	0.983	0.999	0.999	0.998	0.995