Supporting Information

Accurate Prediction of Carbon Dioxide Capture by Deep Eutectic Solvents using Quantum Chemistry and a Neural Network

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Table S1: Experimental and predicted solubility of CO_2 in different DES using different prediction models.

DES (HBA-HBD (molar ratio))	T/(K)	P/(kPa)	$\ln(x_{CO_2}^{Exp.})$	$\ln(x_{CO_2}^{COSMO\text{-}RS})$	$\ln(x_{CO_2}^{MLR})$	$\ln(x_{CO_2}^{ANN\text{-}ML})$	Reference
[ACh]Cl-1,2,4-triazole (1 : 1)	303.15	63.7	-5.71	-4.92	-5.95	-5.80	Li et al. (2018)[1]
[ACh]Cl-1,2,4-triazole (1 : 1)	303.15	107.6	-5.24	-4.40	-5.43	-5.30	
[ACh]Cl-1,2,4-triazole (1 : 1)	303.15	192.5	-4.68	-3.83	-4.86	-4.65	
[ACh]Cl-1,2,4-triazole (1 : 1)	303.15	288.3	-4.30	-3.44	-4.46	-4.21	
[ACh]Cl-1,2,4-triazole (1 : 1)	303.15	382.9	-4.03	-3.16	-4.18	-3.91	
[ACh]Cl-1,2,4-triazole (1 : 1)	303.15	496.8	-3.78	-2.91	-3.93	-3.63	
[ACh]Cl-1,2,4-triazole (1 : 1)	303.15	587.7	-3.62	-2.76	-3.77	-3.44	
[ACh]Cl-1,2,4-triazole (1 : 1)	313.15	56.3	-6.07	-5.29	-6.16	-6.07	
[ACh]Cl-1,2,4-triazole (1 : 1)	313.15	101.6	-5.52	-4.70	-5.58	-5.53	
[ACh]Cl-1,2,4-triazole (1 : 1)	313.15	219.6	-4.76	-3.94	-4.81	-4.68	
[ACh]Cl-1,2,4-triazole (1 : 1)	313.15	366.6	-4.25	-3.44	-4.31	-4.13	
[ACh]Cl-1,2,4-triazole (1 : 1)	313.15	444.5	-4.06	-3.25	-4.12	-3.93	
[ACh]Cl-1,2,4-triazole (1 : 1)	313.15	523.9	-3.89	-3.10	-3.96	-3.75	
[ACh]Cl-1,2,4-triazole (1 : 1)	313.15	572.2	-3.79	-3.01	-3.87	-3.65	
[ACh]Cl-1,2,4-triazole (1 : 1)	323.15	58.4	-6.27	-5.48	-6.21	-6.19	
[ACh]Cl-1,2,4-triazole (1 : 1)	323.15	147.7	-5.34	-4.56	-5.28	-5.28	
[ACh]Cl-1,2,4-triazole (1 : 1)	323.15	251.5	-4.88	-4.03	-4.76	-4.69	
[ACh]Cl-1,2,4-triazole (1 : 1)	323.15	340.7	-4.55	-3.73	-4.45	-4.37	
[ACh]Cl-1,2,4-triazole (1 : 1)	323.15	439	-4.30	-3.48	-4.20	-4.10	
[ACh]Cl-1,2,4-triazole (1 : 1)	323.15	542	-4.07	-3.28	-4.00	-3.87	
[ACh]Cl-1,2,4-triazole (1 : 1)	323.15	593.2	-3.98	-3.19	-3.91	-3.77	
[ACh]Cl-1,2,4-triazole (1 : 1)	333.15	56.3	-6.44	-5.73	-6.32	-6.35	
[ACh]Cl-1,2,4-triazole (1 : 1)	333.15	116.3	-5.68	-5.00	-5.60	-5.69	
[ACh]Cl-1,2,4-triazole (1 : 1)	333.15	186.5	-5.28	-4.54	-5.13	-5.17	
[ACh]Cl-1,2,4-triazole (1 : 1)	333.15	290.9	-4.84	-4.10	-4.68	-4.68	
[ACh]Cl-1,2,4-triazole (1 : 1)	333.15	396.1	-4.56	-3.79	-4.38	-4.36	

[ACh]Cl-1,2,4-triazole (1 : 1)	333.15	487.4	-4.33	-3.59	-4.17	-4.13	
[ACh]Cl-1,2,4-triazole (1 : 1)	333.15	581	-4.15	-3.42	-4.00	-3.94	
Thymol-2,6-xylenol (1 : 1)	293.15	3905.7	-0.94	-0.25	-1.33	-1.08	Alhadid et al. (2022)[2]
Thymol-2,6-xylenol (1 : 1)	293.15	3198.8	-1.15	-0.37	-1.47	-1.22	
Thymol-2,6-xylenol (1 : 1)	293.15	2593.2	-1.34	-0.50	-1.62	-1.35	
Thymol-2,6-xylenol (1 : 1)	293.15	1607	-1.79	-0.84	-1.99	-1.63	
Thymol-2,6-xylenol (1 : 1)	303.15	3984	-1.05	-0.38	-1.29	-1.21	
Thymol-2,6-xylenol (1 : 1)	303.15	3256.3	-1.25	-0.51	-1.45	-1.36	
Thymol-2,6-xylenol (1 : 1)	303.15	2634.4	-1.43	-0.66	-1.61	-1.50	
Thymol-2,6-xylenol (1 : 1)	303.15	1630	-1.90	-1.02	-2.00	-1.78	
Thymol-2,6-xylenol (1 : 1)	313.15	4044.1	-1.18	-0.51	-1.27	-1.36	
Thymol-2,6-xylenol (1 : 1)	313.15	3302.9	-1.33	-0.65	-1.43	-1.51	
Thymol-2,6-xylenol (1 : 1)	313.15	2669.6	-1.55	-0.81	-1.60	-1.65	
Thymol-2,6-xylenol (1 : 1)	313.15	1650	-1.98	-1.19	-2.02	-1.93	
Thymol-2,6-xylenol (1 : 1)	323.15	4085.3	-1.25	-0.64	-1.26	-1.49	
Thymol-2,6-xylenol (1 : 1)	323.15	3338	-1.40	-0.79	-1.43	-1.64	
Thymol-2,6-xylenol (1 : 1)	323.15	2698.8	-1.61	-0.96	-1.61	-1.78	
Thymol-2,6-xylenol (1 : 1)	323.15	1667	-2.07	-1.36	-2.04	-2.06	
[Ch]Cl-Urea (1 : 1.5)	313.15	1070	-2.98	-2.66	-3.50	-2.92	Li et al. (2008)[3]
[Ch]Cl-Urea (1 : 1.5)	313.15	2520	-2.34	-1.96	-2.70	-2.20	
[Ch]Cl-Urea (1 : 1.5)	313.15	4210	-2.10	-1.56	-2.19	-1.83	
[Ch]Cl-Urea (1 : 1.5)	313.15	6090	-1.84	-1.27	-1.78	-1.45	
[Ch]Cl-Urea (1 : 1.5)	323.15	850	-3.41	-3.08	-3.80	-3.32	
[Ch]Cl-Urea (1 : 1.5)	323.15	2330	-2.54	-2.21	-2.84	-2.39	
[Ch]Cl-Urea (1 : 1.5)	323.15	3690	-2.33	-1.84	-2.38	-2.08	
[Ch]Cl-Urea (1 : 1.5)	323.15	6130	-1.94	-1.43	-1.81	-1.58	
[Ch]Cl-Urea (1 : 1.5)	333.15	1230	-3.27	-2.95	-3.53	-3.05	

[Ch]Cl-Urea (1 : 1.5)	333.15	2590	-2.67	-2.30	-2.79	-2.45	
[Ch]Cl-Urea (1 : 1.5)	333.15	4780	-2.32	-1.80	-2.14	-1.98	
[Ch]Cl-Urea (1 : 1.5)	333.15	6550	-2.10	-1.54	-1.77	-1.62	
[ACh]Cl-Imidazole (2 : 3)	303.15	30.2	-7.13	-5.63	-6.67	-6.37	Li et al. (2018)[1]
[ACh]Cl-Imidazole (2 : 3)	303.15	86.7	-5.47	-4.58	-5.61	-5.65	
[ACh]Cl-Imidazole (2 : 3)	303.15	198.4	-4.65	-3.76	-4.79	-4.80	
[ACh]Cl-Imidazole (2 : 3)	303.15	300.3	-4.29	-3.35	-4.37	-4.37	
[ACh]Cl-Imidazole (2 : 3)	303.15	388.1	-4.05	-3.10	-4.12	-4.11	
[ACh]Cl-Imidazole (2 : 3)	303.15	486.8	-3.84	-2.88	-3.89	-3.87	
[ACh]Cl-Imidazole (2 : 3)	303.15	572.6	-3.68	-2.73	-3.73	-3.70	
[ACh]Cl-Imidazole (2 : 3)	313.15	65.21	-5.95	-5.10	-6.00	-6.06	
[ACh]Cl-Imidazole (2 : 3)	313.15	147.7	-5.26	-4.29	-5.18	-5.29	
[ACh]Cl-Imidazole (2 : 3)	313.15	201.4	-4.96	-3.98	-4.87	-4.96	
[ACh]Cl-Imidazole (2 : 3)	313.15	295.9	-4.58	-3.60	-4.49	-4.56	
[ACh]Cl-Imidazole (2 : 3)	313.15	427.6	-4.17	-3.24	-4.12	-4.19	
[ACh]Cl-Imidazole (2 : 3)	313.15	547.6	-3.91	-3.00	-3.87	-3.92	
[ACh]Cl-Imidazole (2 : 3)	323.15	29.8	-6.50	-6.10	-6.88	-6.69	
[ACh]Cl-Imidazole (2 : 3)	323.15	111	-5.52	-4.79	-5.56	-5.74	
[ACh]Cl-Imidazole (2 : 3)	323.15	148.6	-5.32	-4.50	-5.27	-5.44	
[ACh]Cl-Imidazole (2 : 3)	323.15	238.5	-4.89	-4.03	-4.79	-4.95	
[ACh]Cl-Imidazole (2 : 3)	323.15	329.1	-4.60	-3.71	-4.47	-4.62	
[ACh]Cl-Imidazole (2 : 3)	323.15	425.7	-4.34	-3.46	-4.21	-4.35	
[ACh]Cl-Imidazole (2 : 3)	323.15	529.8	-4.14	-3.25	-3.99	-4.12	
[ACh]Cl-Imidazole (2 : 3)	323.15	589.2	-4.03	-3.14	-3.88	-4.00	
[ACh]Cl-Imidazole (2 : 3)	333.15	33	-6.81	-6.21	-6.86	-6.77	
[ACh]Cl-Imidazole (2 : 3)	333.15	92.3	-5.99	-5.18	-5.83	-6.05	
[ACh]Cl-Imidazole (2 : 3)	333.15	141.7	-5.63	-4.75	-5.40	-5.63	
[ACh]Cl-Imidazole (2 : 3)	333.15	235.4	-5.12	-4.25	-4.89	-5.10	

[ACh]Cl-Imidazole (2 : 3)	333.15	346.1	-4.74	-3.87	-4.50	-4.71	
[ACh]Cl-Imidazole (2 : 3)	333.15	441.6	-4.51	-3.63	-4.25	-4.46	
[ACh]Cl-Imidazole (2 : 3)	333.15	536.3	-4.31	-3.44	-4.06	-4.25	
[ACh]Cl-Imidazole (2 : 3)	333.15	594	-4.20	-3.34	-3.95	-4.13	
[TOA]Cl-DecA (1 : 1.5)	298.15	90	-4.09	-3.66	-4.76	-4.07	Zubeir et al. (2018)[4]
[TOA]Cl-DecA (1 : 1.5)	298.15	190	-3.36	-2.93	-4.03	-3.33	
[TOA]Cl-DecA (1 : 1.5)	298.15	290	-2.98	-2.52	-3.62	-2.91	
[TOA]Cl-DecA (1 : 1.5)	298.15	390	-2.69	-2.25	-3.34	-2.63	
[TOA]Cl-DecA (1 : 1.5)	298.15	490	-2.47	-2.04	-3.12	-2.43	
[TOA]Cl-DecA (1 : 1.5)	298.15	790	-2.00	-1.62	-2.68	-1.97	
[TOA]Cl-DecA (1 : 1.5)	298.15	990	-1.80	-1.43	-2.48	-1.76	
[TOA]Cl-DecA (1 : 1.5)	298.15	1490	-1.45	-1.10	-2.12	-1.39	
[TOA]Cl-DecA (1 : 1.5)	298.15	1990	-1.21	-0.78	-1.76	-1.18	
[TOA]Cl-DecA (1 : 1.5)	308.15	90	-4.21	-3.88	-4.85	-4.22	
[TOA]Cl-DecA (1 : 1.5)	308.15	190	-3.49	-3.15	-4.11	-3.49	
[TOA]Cl-DecA (1 : 1.5)	308.15	290	-3.09	-2.74	-3.69	-3.07	
[TOA]Cl-DecA (1 : 1.5)	308.15	390	-2.79	-2.46	-3.41	-2.80	
[TOA]Cl-DecA (1 : 1.5)	308.15	490	-2.58	-2.25	-3.19	-2.59	
[TOA]Cl-DecA (1 : 1.5)	308.15	690	-2.25	-1.93	-2.86	-2.26	
[TOA]Cl-DecA (1 : 1.5)	308.15	790	-2.13	-1.81	-2.73	-2.13	
[TOA]Cl-DecA (1 : 1.5)	308.15	990	-1.93	-1.62	-2.53	-1.91	
[TOA]Cl-DecA (1 : 1.5)	308.15	1190	-1.77	-1.46	-2.36	-1.74	
[TOA]Cl-DecA (1 : 1.5)	308.15	1490	-1.57	-1.28	-2.15	-1.54	
[TOA]Cl-DecA (1 : 1.5)	308.15	1790	-1.42	-1.13	-1.99	-1.40	
[TOA]Cl-DecA (1 : 1.5)	308.15	1990	-1.33	-1.05	-1.90	-1.33	
[Ch]Cl-EG (1 : 2)	303.15	236	-4.68	-4.13	-5.15	-4.75	Leron and Li, (2013)[5]
[Ch]Cl-EG (1 : 2)	303.15	537	-3.83	-3.31	-4.31	-3.87	

[Ch]Cl-EG (1 : 2)	303.15	1004	-3.20	-2.69	-3.64	-3.16	
[Ch]Cl-EG (1 : 2)	303.15	1923	-2.55	-2.05	-2.91	-2.53	
[Ch]Cl-EG (1 : 2)	303.15	2760	-2.19	-1.68	-2.46	-2.28	
[Ch]Cl-EG (1 : 2)	303.15	3849	-1.89	-1.33	-1.99	-2.06	
[Ch]Cl-EG (1 : 2)	303.15	4971	-1.65	-1.01	-1.56	-1.85	
[Ch]Cl-EG (1 : 2)	303.15	5863	-1.53	-0.73	-1.19	-1.69	
[Ch]Cl-EG (1 : 2)	313.15	248	-4.85	-4.29	-5.20	-4.89	
[Ch]Cl-EG (1 : 2)	313.15	565	-4.01	-3.47	-4.35	-4.01	
[Ch]Cl-EG (1 : 2)	313.15	1055	-3.37	-2.85	-3.68	-3.30	
[Ch]Cl-EG (1 : 2)	313.15	1928	-2.77	-2.25	-2.99	-2.71	
[Ch]Cl-EG (1 : 2)	313.15	2782	-2.40	-1.89	-2.54	-2.46	
[Ch]Cl-EG (1 : 2)	313.15	3889	-2.07	-1.54	-2.08	-2.24	
[Ch]Cl-EG (1 : 2)	313.15	5040	-1.82	-1.25	-1.67	-2.03	
[Ch]Cl-EG (1 : 2)	313.15	5902	-1.68	-1.04	-1.38	-1.87	
[Ch]Cl-EG (1 : 2)	323.15	306	-4.86	-4.28	-5.06	-4.85	
[Ch]Cl-EG (1 : 2)	323.15	603	-4.16	-3.60	-4.36	-4.13	
[Ch]Cl-EG (1 : 2)	323.15	1092	-3.56	-3.01	-3.72	-3.44	
[Ch]Cl-EG (1 : 2)	323.15	1950	-2.99	-2.43	-3.06	-2.87	
[Ch]Cl-EG (1 : 2)	323.15	2833	-2.61	-2.06	-2.59	-2.62	
[Ch]Cl-EG (1 : 2)	323.15	3948	-2.26	-1.72	-2.14	-2.40	
[Ch]Cl-EG (1 : 2)	323.15	5110	-2.02	-1.44	-1.75	-2.19	
[Ch]Cl-EG (1 : 2)	323.15	6167	-1.82	-1.22	-1.42	-2.00	
[Ch]Cl-EG (1 : 2)	333.15	332	-4.99	-4.38	-5.06	-4.94	
[Ch]Cl-EG (1 : 2)	333.15	637	-4.32	-3.73	-4.38	-4.24	
[Ch]Cl-EG (1 : 2)	333.15	1094	-3.78	-3.19	-3.79	-3.60	
[Ch]Cl-EG (1 : 2)	333.15	1948	-3.20	-2.61	-3.13	-3.03	
[Ch]Cl-EG (1 : 2)	333.15	2831	-2.84	-2.24	-2.67	-2.78	
[Ch]Cl-EG (1 : 2)	333.15	3944	-2.54	-1.90	-2.22	-2.56	

[Ch]Cl-EG (1 : 2)	333.15	5188	-2.23	-1.62	-1.81	-2.33	
[Ch]Cl-EG (1 : 2)	333.15	6104	-2.10	-1.44	-1.54	-2.16	
[Ch]Cl-EG (1 : 2)	343.15	378	-5.07	-4.42	-4.99	-4.97	
[Ch]Cl-EG (1 : 2)	343.15	659	-4.52	-3.86	-4.41	-4.37	
[Ch]Cl-EG (1 : 2)	343.15	1113	-4.01	-3.34	-3.84	-3.74	
[Ch]Cl-EG (1 : 2)	343.15	1960	-3.46	-2.78	-3.19	-3.18	
[Ch]Cl-EG (1 : 2)	343.15	2862	-3.08	-2.40	-2.72	-2.93	
[Ch]Cl-EG (1 : 2)	343.15	4024	-2.74	-2.05	-2.26	-2.70	
[Ch]Cl-EG (1 : 2)	343.15	5267	-2.48	-1.77	-1.86	-2.47	
[Ch]Cl-EG (1 : 2)	343.15	6323	-2.34	-1.58	-1.56	-2.28	
[TOA]Br-DecA (1 : 2)	298.15	90	-4.17	-3.61	-4.71	-4.25	Zubeir et al. (2018)[4]
[TOA]Br-DecA (1 : 2)	298.15	190	-3.44	-2.89	-3.98	-3.48	
[TOA]Br-DecA (1 : 2)	298.15	290	-3.02	-2.49	-3.58	-3.05	
[TOA]Br-DecA (1 : 2)	298.15	390	-2.74	-2.22	-3.30	-2.77	
[TOA]Br-DecA (1 : 2)	298.15	490	-2.54	-2.02	-3.09	-2.56	
[TOA]Br-DecA (1 : 2)	298.15	790	-2.08	-1.61	-2.65	-2.11	
[TOA]Br-DecA (1 : 2)	298.15	990	-1.87	-1.43	-2.45	-1.89	
[TOA]Br-DecA (1 : 2)	298.15	1490	-1.51	-1.12	-2.09	-1.52	
[TOA]Br-DecA (1 : 2)	298.15	1990	-1.26	-0.76	-1.68	-1.28	
[TOA]Br-DecA (1 : 2)	308.15	90	-4.30	-3.84	-4.82	-4.38	
[TOA]Br-DecA (1 : 2)	308.15	190	-3.58	-3.11	-4.08	-3.61	
[TOA]Br-DecA (1 : 2)	308.15	290	-3.17	-2.71	-3.67	-3.18	
[TOA]Br-DecA (1 : 2)	308.15	390	-2.88	-2.43	-3.38	-2.90	
[TOA]Br-DecA (1 : 2)	308.15	490	-2.67	-2.22	-3.17	-2.69	
[TOA]Br-DecA (1 : 2)	308.15	790	-2.21	-1.80	-2.72	-2.23	
[TOA]Br-DecA (1 : 2)	308.15	990	-2.00	-1.62	-2.51	-2.00	
[TOA]Br-DecA (1 : 2)	308.15	1490	-1.64	-1.29	-2.13	-1.62	
[TOA]Br-DecA (1 : 2)	308.15	1990	-1.39	-0.94	-1.73	-1.37	

[TOA]Br-DecA (1 : 2)	323.15	90	-4.47	-4.15	-4.96	-4.56	
[TOA]Br-DecA (1 : 2)	323.15	190	-3.74	-3.42	-4.22	-3.81	
[TOA]Br-DecA (1 : 2)	323.15	290	-3.34	-3.01	-3.80	-3.37	
[TOA]Br-DecA (1 : 2)	323.15	390	-3.06	-2.73	-3.51	-3.09	
[TOA]Br-DecA (1 : 2)	323.15	490	-2.84	-2.51	-3.28	-2.87	
[TOA]Br-DecA (1 : 2)	323.15	790	-2.39	-2.08	-2.82	-2.39	
[TOA]Br-DecA (1 : 2)	323.15	990	-2.18	-1.88	-2.60	-2.16	
[TOA]Br-DecA (1 : 2)	323.15	1490	-1.81	-1.53	-2.20	-1.74	
[TOA]Br-DecA (1 : 2)	323.15	1990	-1.55	-1.30	-1.92	-1.47	
[TOA]Cl-DecA (1 : 2)	298.15	90	-4.17	-3.72	-4.82	-4.11	Zubeir et al. (2018)[4]
[TOA]Cl-DecA (1 : 2)	298.15	190	-3.45	-2.99	-4.08	-3.36	
[TOA]Cl-DecA (1 : 2)	298.15	290	-3.03	-2.58	-3.67	-2.94	
[TOA]Cl-DecA (1 : 2)	298.15	390	-2.74	-2.31	-3.38	-2.67	
[TOA]Cl-DecA (1 : 2)	298.15	490	-2.53	-2.10	-3.16	-2.48	
[TOA]Cl-DecA (1 : 2)	298.15	690	-2.20	-1.79	-2.84	-2.18	
[TOA]Cl-DecA (1 : 2)	298.15	790	-2.08	-1.67	-2.71	-2.06	
[TOA]Cl-DecA (1 : 2)	298.15	990	-1.87	-1.48	-2.50	-1.87	
[TOA]Cl-DecA (1 : 2)	298.15	1190	-1.70	-1.33	-2.33	-1.72	
[TOA]Cl-DecA (1 : 2)	298.15	1490	-1.50	-1.15	-2.12	-1.55	
[TOA]Cl-DecA (1 : 2)	298.15	1790	-1.34	-0.90	-1.83	-1.42	
[TOA]Cl-DecA (1 : 2)	298.15	1990	-1.26	-0.82	-1.73	-1.36	
[TOA]Cl-DecA (1 : 2)	308.15	90	-4.28	-3.94	-4.92	-4.29	
[TOA]Cl-DecA (1 : 2)	308.15	190	-3.57	-3.21	-4.18	-3.54	
[TOA]Cl-DecA (1 : 2)	308.15	290	-3.17	-2.80	-3.76	-3.12	
[TOA]Cl-DecA (1 : 2)	308.15	390	-2.86	-2.52	-3.47	-2.86	
[TOA]Cl-DecA (1 : 2)	308.15	490	-2.65	-2.31	-3.25	-2.66	
[TOA]Cl-DecA (1 : 2)	308.15	690	-2.34	-1.99	-2.91	-2.36	
[TOA]Cl-DecA (1 : 2)	308.15	790	-2.20	-1.87	-2.78	-2.24	

[TOA]Cl-DecA (1 : 2)	308.15	990	-2.00	-1.67	-2.57	-2.04	
[TOA]Cl-DecA (1 : 2)	308.15	1190	-1.83	-1.52	-2.39	-1.89	
[TOA]Cl-DecA (1 : 2)	308.15	1490	-1.63	-1.33	-2.17	-1.72	
[TOA]Cl-DecA (1 : 2)	308.15	1790	-1.47	-1.18	-1.99	-1.59	
[TOA]Cl-DecA (1 : 2)	308.15	1990	-1.38	-1.10	-1.89	-1.53	
[ACh]Cl-Imidazole (1 : 2)	303.15	26.6	-6.27	-5.77	-6.82	-6.42	Li et al. (2018)[1]
[ACh]Cl-Imidazole (1 : 2)	303.15	57.2	-5.68	-5.01	-6.05	-5.98	
[ACh]Cl-Imidazole (1 : 2)	303.15	93.2	-5.30	-4.52	-5.57	-5.56	
[ACh]Cl-Imidazole (1 : 2)	303.15	141.4	-4.91	-4.11	-5.15	-5.14	
[ACh]Cl-Imidazole (1 : 2)	303.15	240	-4.40	-3.59	-4.61	-4.57	
[ACh]Cl-Imidazole (1 : 2)	303.15	331.4	-4.11	-3.27	-4.29	-4.24	
[ACh]Cl-Imidazole (1 : 2)	303.15	422	-3.89	-3.03	-4.04	-4.00	
[ACh]Cl-Imidazole (1 : 2)	303.15	525.7	-3.71	-2.82	-3.82	-3.78	
[ACh]Cl-Imidazole (1 : 2)	303.15	578.5	-3.62	-2.72	-3.72	-3.68	
[ACh]Cl-Imidazole (1 : 2)	313.15	29.6	-6.91	-5.90	-6.83	-6.53	
[ACh]Cl-Imidazole (1 : 2)	313.15	59.9	-6.03	-5.20	-6.13	-6.11	
[ACh]Cl-Imidazole (1 : 2)	313.15	100	-5.55	-4.69	-5.61	-5.66	
[ACh]Cl-Imidazole (1 : 2)	313.15	149.8	-5.17	-4.29	-5.20	-5.25	
[ACh]Cl-Imidazole (1 : 2)	313.15	242.3	-4.70	-3.81	-4.72	-4.74	
[ACh]Cl-Imidazole (1 : 2)	313.15	335.8	-4.38	-3.49	-4.39	-4.40	
[ACh]Cl-Imidazole (1 : 2)	313.15	426.5	-4.15	-3.25	-4.14	-4.17	
[ACh]Cl-Imidazole (1 : 2)	313.15	529.8	-3.94	-3.04	-3.92	-3.94	
[ACh]Cl-Imidazole (1 : 2)	313.15	588.2	-3.84	-2.94	-3.81	-3.83	
[ACh]Cl-Imidazole (1 : 2)	323.15	27.5	-7.01	-6.20	-7.01	-6.71	
[ACh]Cl-Imidazole (1 : 2)	323.15	88.3	-5.81	-5.03	-5.84	-5.94	
[ACh]Cl-Imidazole (1 : 2)	323.15	142.6	-5.36	-4.55	-5.36	-5.46	
[ACh]Cl-Imidazole (1 : 2)	323.15	232.3	-4.91	-4.07	-4.87	-4.94	
[ACh]Cl-Imidazole (1 : 2)	323.15	331.6	-4.57	-3.72	-4.50	-4.58	

[ACh]Cl-Imidazole (1 : 2)	323.15	424.1	-4.33	-3.47	-4.25	-4.33	
[ACh]Cl-Imidazole (1 : 2)	323.15	526.8	-4.10	-3.26	-4.03	-4.11	
[ACh]Cl-Imidazole (1 : 2)	323.15	587.1	-4.01	-3.15	-3.91	-3.99	
[ACh]Cl-Imidazole (1 : 2)	333.15	30.6	-7.01	-6.29	-7.01	-6.80	
[ACh]Cl-Imidazole (1 : 2)	333.15	60.2	-6.38	-5.62	-6.33	-6.39	
[ACh]Cl-Imidazole (1 : 2)	333.15	99	-5.91	-5.12	-5.83	-5.97	
[ACh]Cl-Imidazole (1 : 2)	333.15	148.6	-5.55	-4.72	-5.42	-5.56	
[ACh]Cl-Imidazole (1 : 2)	333.15	235.9	-5.08	-4.26	-4.95	-5.07	
[ACh]Cl-Imidazole (1 : 2)	333.15	339.2	-4.72	-3.90	-4.58	-4.70	
[ACh]Cl-Imidazole (1 : 2)	333.15	429.2	-4.49	-3.66	-4.33	-4.46	
[ACh]Cl-Imidazole (1 : 2)	333.15	536.5	-4.27	-3.44	-4.10	-4.23	
[ACh]Cl-Imidazole (1 : 2)	333.15	589.9	-4.17	-3.35	-4.00	-4.13	
[Ch]Cl-Urea (1 : 2)	313.15	1130	-2.56	-2.74	-3.56	-2.91	Li et al. (2008)[3]
[Ch]Cl-Urea (1 : 2)	313.15	2850	-1.90	-1.96	-2.61	-2.24	
[Ch]Cl-Urea (1 : 2)	313.15	4370	-1.66	-1.61	-2.10	-1.92	
[Ch]Cl-Urea (1 : 2)	313.15	6230	-1.46	-1.30	-1.61	-1.55	
[Ch]Cl-Urea (1 : 2)	323.15	1010	-2.81	-3.05	-3.77	-3.16	
[Ch]Cl-Urea (1 : 2)	323.15	2240	-2.23	-2.35	-2.95	-2.54	
[Ch]Cl-Urea (1 : 2)	323.15	3170	-2.03	-2.06	-2.56	-2.31	
[Ch]Cl-Urea (1 : 2)	323.15	4740	-1.71	-1.72	-2.06	-1.99	
[Ch]Cl-Urea (1 : 2)	333.15	1000	-2.98	-3.27	-3.88	-3.31	
[Ch]Cl-Urea (1 : 2)	333.15	2360	-2.31	-2.49	-2.97	-2.63	
[Ch]Cl-Urea (1 : 2)	333.15	4800	-1.86	-1.88	-2.11	-2.10	
[Ch]Cl-Urea (1 : 2)	333.15	6310	-1.62	-1.64	-1.72	-1.80	
[BTEA]Cl-AC (1 : 2)	298.15	325	-4.27	-3.49	-4.58	-4.40	Sarmad et al. (2017)[6]
[BTEA]Cl-AC (1 : 2)	298.15	551	-3.55	-2.97	-4.03	-3.82	
[BTEA]Cl-AC (1 : 2)	298.15	957	-3.12	-2.43	-3.45	-3.14	

[BTEA]Cl-AC (1 : 2)	298.15	1377	-2.78	-2.07	-3.05	-2.70	
[BTEA]Cl-AC (1 : 2)	298.15	1664	-2.52	-1.88	-2.83	-2.50	
[BTEA]Cl-AC (1 : 2)	298.15	2054	-2.32	-1.67	-2.58	-2.31	
[BTMA]Cl-AC (1 : 2)	298.15	219	-4.89	-3.70	-4.79	-4.68	Sarmad et al. (2017)[6]
[BTMA]Cl-AC (1 : 2)	298.15	530	-3.66	-2.83	-3.90	-3.71	
[BTMA]Cl-AC (1 : 2)	298.15	886	-2.74	-2.34	-3.36	-3.13	
[BTMA]Cl-AC (1 : 2)	298.15	1141	-2.48	-2.10	-3.10	-2.84	
[BTMA]Cl-AC (1 : 2)	298.15	1563	-2.33	-1.80	-2.76	-2.51	
[BTMA]Cl-AC (1 : 2)	298.15	1874	-2.18	-1.63	-2.55	-2.36	
[BTMA]Cl-AC (1 : 2)	298.15	2037	-2.09	-1.55	-2.46	-2.29	
[BTMA]Cl-GLY (1 : 2)	298.15	394	-5.43	-3.28	-4.35	-5.34	Sarmad et al. (2017)[6]
[BTMA]Cl-GLY (1 : 2)	298.15	672	-5.02	-2.76	-3.80	-4.76	
[BTMA]Cl-GLY (1 : 2)	298.15	999	-4.49	-2.37	-3.38	-4.28	
[BTMA]Cl-GLY (1 : 2)	298.15	1345	-3.88	-2.08	-3.06	-3.93	
[BTMA]Cl-GLY (1 : 2)	298.15	1711	-3.64	-1.85	-2.79	-3.71	
[BTMA]Cl-GLY (1 : 2)	298.15	2026	-3.51	-1.68	-2.60	-3.58	
[Ch]Cl-Phenol (1 : 2)	293.15	99	-5.57	-4.16	-5.32	-5.62	Li et al. (2014)[7]
[Ch]Cl-Phenol (1 : 2)	293.15	197.2	-4.87	-3.46	-4.62	-4.91	
[Ch]Cl-Phenol (1 : 2)	293.15	303.1	-4.37	-3.03	-4.18	-4.46	
[Ch]Cl-Phenol (1 : 2)	293.15	397	-4.12	-2.76	-3.90	-4.17	
[Ch]Cl-Phenol (1 : 2)	293.15	494.5	-3.87	-2.54	-3.67	-3.93	
[Ch]Cl-Phenol (1 : 2)	303.15	104.3	-5.60	-4.35	-5.39	-5.73	
[Ch]Cl-Phenol (1 : 2)	303.15	198.2	-4.95	-3.71	-4.74	-5.07	
[Ch]Cl-Phenol (1 : 2)	303.15	295.5	-4.56	-3.31	-4.33	-4.65	
[Ch]Cl-Phenol (1 : 2)	303.15	400.6	-4.29	-3.00	-4.01	-4.33	
[Ch]Cl-Phenol (1 : 2)	303.15	510.1	-4.07	-2.76	-3.76	-4.06	
[Ch]Cl-Phenol (1 : 2)	313.15	121.8	-5.71	-4.43	-5.35	-5.74	

[Ch]Cl-Phenol (1 : 2)	313.15	217.8	-5.12	-3.84	-4.75	-5.13	
[Ch]Cl-Phenol (1 : 2)	313.15	322	-4.70	-3.45	-4.35	-4.72	
[Ch]Cl-Phenol (1 : 2)	313.15	417.4	-4.41	-3.19	-4.08	-4.45	
[Ch]Cl-Phenol (1 : 2)	313.15	503	-4.21	-3.00	-3.88	-4.24	
[Ch]Cl-Phenol (1 : 2)	323.15	115.2	-6.03	-4.69	-5.50	-5.94	
[Ch]Cl-Phenol (1 : 2)	323.15	216.5	-5.34	-4.06	-4.86	-5.29	
[Ch]Cl-Phenol (1 : 2)	323.15	320	-4.98	-3.67	-4.46	-4.88	
[Ch]Cl-Phenol (1 : 2)	323.15	424.8	-4.68	-3.38	-4.16	-4.58	
[TBA]Br-AC (1 : 2)	298.15	388	-3.91	-2.64	-3.71	-3.52	Sarmad et al. (2017)[6]
[TBA]Br-AC (1 : 2)	298.15	715	-2.93	-2.09	-3.14	-2.84	
[TBA]Br-AC (1 : 2)	298.15	1302	-2.41	-1.60	-2.58	-2.11	
[TBA]Br-AC (1 : 2)	298.15	1730	-2.15	-1.38	-2.32	-1.82	
[TBA]Br-AC (1 : 2)	298.15	2011	-1.94	-1.27	-2.18	-1.69	
[TBA]Cl-AC (1 : 2)	298.15	348	-3.73	-2.83	-3.91	-3.66	Sarmad et al. (2017)[6]
[TBA]Cl-AC (1 : 2)	298.15	631	-3.00	-2.28	-3.33	-3.04	
[TBA]Cl-AC (1 : 2)	298.15	943	-2.59	-1.92	-2.94	-2.58	
[TBA]Cl-AC (1 : 2)	298.15	1319	-2.26	-1.63	-2.62	-2.21	
[TBA]Cl-AC (1 : 2)	298.15	1673	-1.99	-1.44	-2.39	-1.98	
[TBA]Cl-AC (1 : 2)	298.15	2002	-1.84	-1.30	-2.21	-1.83	
[TEA]Cl-AC (1 : 2)	298.15	281	-3.65	-3.22	-4.31	-4.04	Sarmad et al. (2017)[6]
[TEA]Cl-AC (1 : 2)	298.15	530	-3.04	-2.62	-3.68	-3.34	
[TEA]Cl-AC (1 : 2)	298.15	822	-2.62	-2.22	-3.25	-2.82	
[TEA]Cl-AC (1 : 2)	298.15	1304	-2.20	-1.81	-2.79	-2.26	
[TEA]Cl-AC (1 : 2)	298.15	1699	-1.97	-1.58	-2.53	-1.98	
[TEA]Cl-AC (1 : 2)	298.15	2018	-1.82	-1.44	-2.35	-1.83	
[TBA]Cl-LA (1 : 2)	308	93	-5.18	-4.60	-5.58	-4.97	Zubeir et al. (2014)[8]

[TBA]Cl-LA (1 : 2)	308	194	-4.35	-3.87	-4.84	-4.24	
[TBA]Cl-LA (1 : 2)	308	293	-3.91	-3.46	-4.43	-3.83	
[TBA]Cl-LA (1 : 2)	308	392	-3.62	-3.18	-4.13	-3.55	
[TBA]Cl-LA (1 : 2)	308	493	-3.41	-2.96	-3.90	-3.33	
[TBA]Cl-LA (1 : 2)	308	793	-2.93	-2.50	-3.42	-2.84	
[TBA]Cl-LA (1 : 2)	308	892	-2.82	-2.39	-3.30	-2.72	
[TBA]Cl-LA (1 : 2)	308	993	-2.71	-2.29	-3.19	-2.60	
[TBA]Cl-LA (1 : 2)	308	1292	-2.46	-2.05	-2.91	-2.34	
[TBA]Cl-LA (1 : 2)	308	1393	-2.40	-1.98	-2.83	-2.27	
[TBA]Cl-LA (1 : 2)	308	1493	-2.32	-1.92	-2.76	-2.21	
[TBA]Cl-LA (1 : 2)	308	1793	-2.15	-1.75	-2.57	-2.06	
[TBA]Cl-LA (1 : 2)	308	1893	-2.11	-1.71	-2.51	-2.02	
[TBA]Cl-LA (1 : 2)	308	1992	-2.06	-1.66	-2.45	-1.99	
[TBA]Cl-LA (1 : 2)	318	93	-5.15	-4.80	-5.67	-5.17	
[TBA]Cl-LA (1 : 2)	318	194	-4.45	-4.07	-4.93	-4.44	
[TBA]Cl-LA (1 : 2)	318	293	-4.08	-3.67	-4.52	-4.03	
[TBA]Cl-LA (1 : 2)	318	393	-3.77	-3.38	-4.22	-3.75	
[TBA]Cl-LA (1 : 2)	318	492	-3.54	-3.16	-3.99	-3.53	
[TBA]Cl-LA (1 : 2)	318	793	-3.07	-2.70	-3.50	-3.04	
[TBA]Cl-LA (1 : 2)	318	893	-2.95	-2.59	-3.37	-2.91	
[TBA]Cl-LA (1 : 2)	318	992	-2.85	-2.49	-3.26	-2.80	
[TBA]Cl-LA (1 : 2)	318	1292	-2.60	-2.24	-2.99	-2.53	
[TBA]Cl-LA (1 : 2)	318	1393	-2.54	-2.17	-2.91	-2.46	
[TBA]Cl-LA (1 : 2)	318	1493	-2.47	-2.11	-2.83	-2.39	
[TBA]Cl-LA (1 : 2)	318	1793	-2.30	-1.94	-2.63	-2.25	
[TBA]Cl-LA (1 : 2)	318	1892	-2.25	-1.89	-2.58	-2.21	
[TBA]Cl-LA (1 : 2)	318	1992	-2.20	-1.84	-2.52	-2.17	
[TEA]Cl-LA (1 : 2)	308	97	-5.78	-4.84	-5.83	-5.73	Zubeir et al. (2014)[8]

[TEA]Cl-LA (1 : 2)	308	197	-4.94	-4.14	-5.11	-4.96	
[TEA]Cl-LA (1 : 2)	308	294	-4.49	-3.74	-4.71	-4.53	
[TEA]Cl-LA (1 : 2)	308	394	-4.19	-3.46	-4.41	-4.23	
[TEA]Cl-LA (1 : 2)	308	493	-3.96	-3.24	-4.18	-4.01	
[TEA]Cl-LA (1 : 2)	308	593	-3.78	-3.06	-3.99	-3.82	
[TEA]Cl-LA (1 : 2)	308	693	-3.62	-2.90	-3.83	-3.65	
[TEA]Cl-LA (1 : 2)	308	793	-3.49	-2.77	-3.69	-3.50	
[TEA]Cl-LA (1 : 2)	308	893	-3.36	-2.66	-3.56	-3.37	
[TEA]Cl-LA (1 : 2)	308	993	-3.27	-2.55	-3.45	-3.25	
[TEA]Cl-LA (1 : 2)	308	1093	-3.19	-2.46	-3.35	-3.15	
[TEA]Cl-LA (1 : 2)	308	1192	-3.10	-2.38	-3.25	-3.06	
[TEA]Cl-LA (1 : 2)	308	1293	-3.03	-2.30	-3.16	-2.98	
[TEA]Cl-LA (1 : 2)	308	1392	-2.96	-2.23	-3.08	-2.91	
[TEA]Cl-LA (1 : 2)	308	1493	-2.89	-2.16	-3.01	-2.84	
[TEA]Cl-LA (1 : 2)	308	1592	-2.83	-2.10	-2.93	-2.79	
[TEA]Cl-LA (1 : 2)	308	1692	-2.77	-2.04	-2.87	-2.74	
[TEA]Cl-LA (1 : 2)	308	1793	-2.72	-1.99	-2.80	-2.70	
[TEA]Cl-LA (1 : 2)	308	1893	-2.67	-1.94	-2.74	-2.66	
[TEA]Cl-LA (1 : 2)	308	1993	-2.62	-1.89	-2.68	-2.62	
[TEA]Cl-LA (1 : 2)	318	94	-5.56	-5.09	-5.95	-5.96	
[TEA]Cl-LA (1 : 2)	318	193	-5.04	-4.37	-5.23	-5.19	
[TEA]Cl-LA (1 : 2)	318	294	-4.57	-3.95	-4.80	-4.73	
[TEA]Cl-LA (1 : 2)	318	393	-4.35	-3.67	-4.50	-4.44	
[TEA]Cl-LA (1 : 2)	318	492	-4.10	-3.44	-4.27	-4.21	
[TEA]Cl-LA (1 : 2)	318	593	-3.93	-3.26	-4.08	-4.02	
[TEA]Cl-LA (1 : 2)	318	692	-3.78	-3.11	-3.92	-3.85	
[TEA]Cl-LA (1 : 2)	318	793	-3.65	-2.98	-3.77	-3.70	
[TEA]Cl-LA (1 : 2)	318	892	-3.53	-2.86	-3.65	-3.57	

[TEA]Cl-LA (1 : 2)	318	993	-3.43	-2.76	-3.53	-3.45	
[TEA]Cl-LA (1 : 2)	318	1092	-3.34	-2.66	-3.43	-3.34	
[TEA]Cl-LA (1 : 2)	318	1193	-3.26	-2.58	-3.34	-3.25	
[TEA]Cl-LA (1 : 2)	318	1293	-3.19	-2.50	-3.25	-3.17	
[TEA]Cl-LA (1 : 2)	318	1392	-3.13	-2.43	-3.17	-3.10	
[TEA]Cl-LA (1 : 2)	318	1492	-3.06	-2.36	-3.09	-3.03	
[TEA]Cl-LA (1 : 2)	318	1593	-2.99	-2.30	-3.02	-2.98	
[TEA]Cl-LA (1 : 2)	318	1693	-2.95	-2.24	-2.95	-2.93	
[TEA]Cl-LA (1 : 2)	318	1793	-2.89	-2.19	-2.88	-2.88	
[TEA]Cl-LA (1 : 2)	318	1892	-2.84	-2.13	-2.82	-2.84	
[TEA]Cl-LA (1 : 2)	318	1992	-2.79	-2.09	-2.76	-2.81	
[TMA]Cl-LA (1 : 2)	308	98	-6.01	-5.24	-6.23	-5.89	Zubeir et al. (2014)[8]
[TMA]Cl-LA (1 : 2)	308	194	-5.17	-4.56	-5.53	-5.14	
[TMA]Cl-LA (1 : 2)	308	295	-4.75	-4.14	-5.10	-4.69	
[TMA]Cl-LA (1 : 2)	308	393	-4.42	-3.85	-4.81	-4.40	
[TMA]Cl-LA (1 : 2)	308	493	-4.20	-3.63	-4.57	-4.18	
[TMA]Cl-LA (1 : 2)	308	592	-4.00	-3.44	-4.38	-4.00	
[TMA]Cl-LA (1 : 2)	308	692	-3.84	-3.29	-4.21	-3.84	
[TMA]Cl-LA (1 : 2)	308	793	-3.70	-3.15	-4.06	-3.70	
[TMA]Cl-LA (1 : 2)	308	893	-3.59	-3.03	-3.93	-3.58	
[TMA]Cl-LA (1 : 2)	308	993	-3.48	-2.92	-3.81	-3.47	
[TMA]Cl-LA (1 : 2)	308	1093	-3.38	-2.83	-3.71	-3.37	
[TMA]Cl-LA (1 : 2)	308	1192	-3.30	-2.74	-3.61	-3.28	
[TMA]Cl-LA (1 : 2)	308	1292	-3.23	-2.66	-3.52	-3.21	
[TMA]Cl-LA (1 : 2)	308	1392	-3.17	-2.58	-3.43	-3.14	
[TMA]Cl-LA (1 : 2)	308	1492	-3.11	-2.51	-3.35	-3.08	
[TMA]Cl-LA (1 : 2)	308	1593	-3.03	-2.44	-3.27	-3.02	
[TMA]Cl-LA (1 : 2)	308	1692	-2.98	-2.38	-3.20	-2.98	

[TMA]Cl-LA (1 : 2)	308	1793	-2.93	-2.32	-3.13	-2.93	
[TMA]Cl-LA (1 : 2)	308	1892	-2.88	-2.26	-3.07	-2.89	
[TMA]Cl-LA (1 : 2)	308	1992	-2.83	-2.21	-3.00	-2.86	
[TMA]Cl-LA (1 : 2)	318	95	-6.07	-5.48	-6.34	-6.09	
[TMA]Cl-LA (1 : 2)	318	194	-5.24	-4.76	-5.62	-5.31	
[TMA]Cl-LA (1 : 2)	318	293	-4.82	-4.35	-5.20	-4.86	
[TMA]Cl-LA (1 : 2)	318	393	-4.56	-4.05	-4.89	-4.57	
[TMA]Cl-LA (1 : 2)	318	493	-4.32	-3.83	-4.65	-4.35	
[TMA]Cl-LA (1 : 2)	318	593	-4.15	-3.64	-4.46	-4.16	
[TMA]Cl-LA (1 : 2)	318	692	-3.97	-3.49	-4.29	-4.00	
[TMA]Cl-LA (1 : 2)	318	792	-3.85	-3.35	-4.15	-3.86	
[TMA]Cl-LA (1 : 2)	318	893	-3.73	-3.23	-4.02	-3.73	
[TMA]Cl-LA (1 : 2)	318	992	-3.63	-3.12	-3.90	-3.62	
[TMA]Cl-LA (1 : 2)	318	1093	-3.54	-3.03	-3.79	-3.52	
[TMA]Cl-LA (1 : 2)	318	1193	-3.45	-2.94	-3.70	-3.44	
[TMA]Cl-LA (1 : 2)	318	1292	-3.38	-2.86	-3.60	-3.36	
[TMA]Cl-LA (1 : 2)	318	1393	-3.31	-2.78	-3.52	-3.29	
[TMA]Cl-LA (1 : 2)	318	1493	-3.25	-2.71	-3.44	-3.23	
[TMA]Cl-LA (1 : 2)	318	1593	-3.19	-2.64	-3.36	-3.17	
[TMA]Cl-LA (1 : 2)	318	1692	-3.13	-2.58	-3.29	-3.12	
[TMA]Cl-LA (1 : 2)	318	1792	-3.09	-2.52	-3.22	-3.08	
[TMA]Cl-LA (1 : 2)	318	1892	-3.04	-2.47	-3.16	-3.04	
[TMA]Cl-LA (1 : 2)	318	1993	-2.99	-2.42	-3.09	-3.00	
[TEMA]Cl-AC (1 : 2)	298.15	198	-5.03	-3.65	-4.74	-4.86	Sarmad et al. (2017)[6]
[TEMA]Cl-AC (1 : 2)	298.15	413	-4.18	-2.94	-4.01	-4.01	
[TEMA]Cl-AC (1 : 2)	298.15	806	-3.41	-2.31	-3.34	-3.28	
[TEMA]Cl-AC (1 : 2)	298.15	1155	-3.05	-1.98	-2.98	-2.87	
[TEMA]Cl-AC (1 : 2)	298.15	1410	-2.78	-1.80	-2.78	-2.66	

[TEMA]Cl-AC (1 : 2)	298.15	1624	-2.60	-1.68	-2.63	-2.52	
[TEMA]Cl-AC (1 : 2)	298.15	1837	-2.44	-1.57	-2.50	-2.41	
[TEMA]Cl-EG (1 : 2)	298.15	138	-5.28	-4.13	-5.23	-5.85	
[TEMA]Cl-EG (1 : 2)	298.15	314	-4.12	-3.33	-4.41	-4.81	
[TEMA]Cl-EG (1 : 2)	298.15	543	-3.49	-2.80	-3.86	-4.22	
[TEMA]Cl-EG (1 : 2)	298.15	802	-3.28	-2.44	-3.47	-3.79	
[TEMA]Cl-EG (1 : 2)	298.15	1041	-3.09	-2.20	-3.20	-3.49	
[TEMA]Cl-EG (1 : 2)	298.15	1345	-3.01	-1.96	-2.94	-3.22	
[TEMA]Cl-GLY (1 : 2)	298.15	150	-6.35	-4.14	-5.24	-5.86	Sarmad et al. (2017)[6]
[TEMA]Cl-GLY (1 : 2)	298.15	420	-5.11	-3.13	-4.20	-4.65	
[TEMA]Cl-GLY (1 : 2)	298.15	833	-4.36	-2.47	-3.50	-3.85	
[TEMA]Cl-GLY (1 : 2)	298.15	1238	-3.64	-2.09	-3.08	-3.36	
[TEMA]Cl-GLY (1 : 2)	298.15	1648	-3.16	-1.83	-2.78	-3.05	
[TEMA]Cl-LA (1 : 2)	298.15	143	-5.35	-4.32	-5.42	-5.13	Sarmad et al. (2017)[6]
[TEMA]Cl-LA (1 : 2)	298.15	418	-4.52	-3.26	-4.33	-3.96	
[TEMA]Cl-LA (1 : 2)	298.15	938	-3.64	-2.47	-3.49	-3.13	
[TEMA]Cl-LA (1 : 2)	298.15	1265	-3.32	-2.18	-3.16	-2.83	
[TEMA]Cl-LA (1 : 2)	298.15	1500	-3.13	-2.01	-2.98	-2.68	
[TEMA]Cl-LA (1 : 2)	298.15	1863	-2.97	-1.80	-2.73	-2.50	
[TEMA]Cl-LEV (1 : 2)	298.15	136	-5.00	-3.76	-4.86	-4.96	Sarmad et al. (2017)[6]
[TEMA]Cl-LEV (1 : 2)	298.15	409	-3.97	-2.68	-3.76	-3.77	
[TEMA]Cl-LEV (1 : 2)	298.15	735	-3.34	-2.13	-3.17	-3.03	
[TEMA]Cl-LEV (1 : 2)	298.15	1043	-3.01	-1.81	-2.82	-2.51	
[TEMA]Cl-LEV (1 : 2)	298.15	1617	-2.69	-1.41	-2.37	-1.88	
[Gua]Cl-EA (1 : 2)	298.15	226	-3.83	-4.01	-5.10	-3.86	Sarmad et al. (2017)[6]
[Gua]Cl-EA (1 : 2)	298.15	563	-2.87	-3.08	-4.13	-3.01	

[Gua]Cl-EA (1 : 2)	298.15	836	-2.54	-2.66	-3.70	-2.72	
[Gua]Cl-EA (1 : 2)	298.15	1129	-2.41	-2.35	-3.35	-2.51	
[Gua]Cl-EA (1 : 2)	298.15	1480	-2.36	-2.05	-3.01	-2.33	
[Gua]Cl-EA (1 : 2)	298.15	1787	-2.30	-1.83	-2.77	-2.22	
[Gua]Cl-EA (1 : 2)	298.15	2025	-2.23	-1.68	-2.59	-2.14	
[Ch]Cl-EA (1 : 2)	308.2	651	-3.00	-2.68	-3.61	-3.31	Sarmad et al. (2017)[6]
[Ch]Cl-EA (1 : 2)	308.2	1527	-2.35	-1.85	-2.69	-2.32	
[Ch]Cl-EA (1 : 2)	308.2	2453	-1.99	-1.38	-2.12	-1.93	
[Ch]Cl-EA (1 : 2)	308.2	3445	-1.75	-1.01	-1.66	-1.69	
[Ch]Cl-EA (1 : 2)	308.2	4376	-1.63	-0.87	-1.42	-1.48	
[Ch]Cl-EA (1 : 2)	318.2	706	-3.12	-2.81	-3.61	-3.37	
[Ch]Cl-EA (1 : 2)	318.2	1661	-2.39	-1.97	-2.68	-2.39	
[Ch]Cl-EA (1 : 2)	318.2	2618	-2.06	-1.52	-2.13	-2.02	
[Ch]Cl-EA (1 : 2)	318.2	3527	-1.78	-1.21	-1.73	-1.80	
[Ch]Cl-EA (1 : 2)	318.2	4504	-1.67	-0.92	-1.35	-1.57	
[Ch]Cl-EA (1 : 2)	328.2	692	-3.17	-3.02	-3.71	-3.54	
[Ch]Cl-EA (1 : 2)	328.2	1691	-2.43	-2.14	-2.74	-2.50	
[Ch]Cl-EA (1 : 2)	328.2	2544	-2.14	-1.74	-2.24	-2.17	
[Ch]Cl-EA (1 : 2)	328.2	3577	-1.86	-1.39	-1.79	-1.90	
[Ch]Cl-EA (1 : 2)	328.2	4499	-1.74	-1.14	-1.45	-1.68	
[TBA]Cl-DecA (1 : 2)	298.15	90	-4.39	-3.80	-4.91	-4.47	Zubeir et al. (2018)[4]
[TBA]Cl-DecA (1 : 2)	298.15	190	-3.66	-3.07	-4.17	-3.70	
[TBA]Cl-DecA (1 : 2)	298.15	290	-3.25	-2.66	-3.75	-3.26	
[TBA]Cl-DecA (1 : 2)	298.15	390	-2.95	-2.38	-3.46	-2.97	
[TBA]Cl-DecA (1 : 2)	298.15	490	-2.73	-2.17	-3.24	-2.76	
[TBA]Cl-DecA (1 : 2)	298.15	690	-2.40	-1.86	-2.90	-2.42	
[TBA]Cl-DecA (1 : 2)	298.15	790	-2.28	-1.74	-2.77	-2.28	

[TBA]Cl-DecA (1 : 2)	298.15	990	-2.07	-1.54	-2.55	-2.05	
[TBA]Cl-DecA (1 : 2)	298.15	1190	-1.90	-1.38	-2.38	-1.87	
[TBA]Cl-DecA (1 : 2)	298.15	1490	-1.69	-1.19	-2.16	-1.67	
[TBA]Cl-DecA (1 : 2)	298.15	1790	-1.52	-1.04	-1.97	-1.52	
[TBA]Cl-DecA (1 : 2)	298.15	1990	-1.43	-0.88	-1.79	-1.44	
[TBA]Cl-DecA (1 : 2)	308.15	90	-4.60	-4.03	-5.01	-4.61	
[TBA]Cl-DecA (1 : 2)	308.15	190	-3.83	-3.29	-4.27	-3.84	
[TBA]Cl-DecA (1 : 2)	308.15	290	-3.40	-2.88	-3.85	-3.40	
[TBA]Cl-DecA (1 : 2)	308.15	390	-3.11	-2.60	-3.55	-3.12	
[TBA]Cl-DecA (1 : 2)	308.15	490	-2.89	-2.38	-3.32	-2.90	
[TBA]Cl-DecA (1 : 2)	308.15	690	-2.55	-2.06	-2.99	-2.56	
[TBA]Cl-DecA (1 : 2)	308.15	790	-2.42	-1.94	-2.85	-2.42	
[TBA]Cl-DecA (1 : 2)	308.15	990	-2.21	-1.74	-2.63	-2.18	
[TBA]Cl-DecA (1 : 2)	308.15	1190	-2.04	-1.58	-2.45	-2.00	
[TBA]Cl-DecA (1 : 2)	308.15	1490	-1.83	-1.38	-2.22	-1.79	
[TBA]Cl-DecA (1 : 2)	308.15	1790	-1.66	-1.23	-2.04	-1.64	
[TBA]Cl-DecA (1 : 2)	308.15	1990	-1.57	-1.14	-1.93	-1.56	
[TBA]Cl-DecA (1 : 2)	323.15	90	-4.76	-4.34	-5.15	-4.82	
[TBA]Cl-DecA (1 : 2)	323.15	190	-4.03	-3.60	-4.40	-4.06	
[TBA]Cl-DecA (1 : 2)	323.15	290	-3.61	-3.18	-3.98	-3.62	
[TBA]Cl-DecA (1 : 2)	323.15	390	-3.31	-2.90	-3.68	-3.33	
[TBA]Cl-DecA (1 : 2)	323.15	490	-3.08	-2.68	-3.45	-3.11	
[TBA]Cl-DecA (1 : 2)	323.15	690	-2.75	-2.35	-3.10	-2.77	
[TBA]Cl-DecA (1 : 2)	323.15	790	-2.63	-2.22	-2.97	-2.62	
[TBA]Cl-DecA (1 : 2)	323.15	990	-2.41	-2.02	-2.74	-2.38	
[TBA]Cl-DecA (1 : 2)	323.15	1190	-2.23	-1.85	-2.55	-2.19	
[TBA]Cl-DecA (1 : 2)	323.15	1490	-2.02	-1.65	-2.32	-1.98	
[TBA]Cl-DecA (1 : 2)	323.15	1790	-1.86	-1.49	-2.13	-1.83	

[TBA]Cl-DecA (1 : 2)	323.15	1990	-1.76	-1.39	-2.01	-1.74	
[TOMA]Cl-DecA (1 : 2)	298.15	90	-4.32	-3.78	-4.89	-4.32	Zubeir et al. (2018)[4]
[TOMA]Cl-DecA (1 : 2)	298.15	190	-3.54	-3.05	-4.15	-3.49	
[TOMA]Cl-DecA (1 : 2)	298.15	290	-3.19	-2.64	-3.73	-3.05	
[TOMA]Cl-DecA (1 : 2)	298.15	390	-2.88	-2.36	-3.44	-2.78	
[TOMA]Cl-DecA (1 : 2)	298.15	490	-2.67	-2.15	-3.21	-2.58	
[TOMA]Cl-DecA (1 : 2)	298.15	790	-2.21	-1.72	-2.75	-2.19	
[TOMA]Cl-DecA (1 : 2)	298.15	990	-2.00	-1.52	-2.53	-2.01	
[TOMA]Cl-DecA (1 : 2)	298.15	1490	-1.63	-1.17	-2.14	-1.70	
[TOMA]Cl-DecA (1 : 2)	298.15	1990	-1.38	-0.86	-1.77	-1.52	
[TOMA]Cl-DecA (1 : 2)	308.15	90	-4.49	-4.01	-4.99	-4.46	
[TOMA]Cl-DecA (1 : 2)	308.15	190	-3.73	-3.27	-4.24	-3.65	
[TOMA]Cl-DecA (1 : 2)	308.15	290	-3.32	-2.86	-3.82	-3.20	
[TOMA]Cl-DecA (1 : 2)	308.15	390	-3.04	-2.58	-3.53	-2.93	
[TOMA]Cl-DecA (1 : 2)	308.15	490	-2.82	-2.36	-3.30	-2.73	
[TOMA]Cl-DecA (1 : 2)	308.15	790	-2.34	-1.92	-2.83	-2.34	
[TOMA]Cl-DecA (1 : 2)	308.15	990	-2.14	-1.71	-2.61	-2.15	
[TOMA]Cl-DecA (1 : 2)	308.15	1490	-1.76	-1.36	-2.20	-1.84	
[TOMA]Cl-DecA (1 : 2)	308.15	1990	-1.50	-1.12	-1.91	-1.65	
[TOMA]Br-DecA (1 : 2)	298.15	90	-4.27	-3.68	-4.78	-4.27	Zubeir et al. (2018)[4]
[TOMA]Br-DecA (1 : 2)	298.15	190	-3.59	-2.95	-4.05	-3.50	
[TOMA]Br-DecA (1 : 2)	298.15	290	-3.19	-2.55	-3.64	-3.07	
[TOMA]Br-DecA (1 : 2)	298.15	390	-2.90	-2.28	-3.35	-2.79	
[TOMA]Br-DecA (1 : 2)	298.15	490	-2.66	-2.07	-3.14	-2.58	
[TOMA]Br-DecA (1 : 2)	298.15	790	-2.21	-1.65	-2.69	-2.15	
[TOMA]Br-DecA (1 : 2)	298.15	990	-1.99	-1.47	-2.48	-1.94	
[TOMA]Br-DecA (1 : 2)	298.15	1490	-1.62	-1.14	-2.11	-1.59	

[TOMA]Br-DecA (1 : 2)	298.15	1990	-1.36	-0.80	-1.72	-1.39	
[TOMA]Br-DecA (1 : 2)	298.15	90	-4.41	-3.90	-5.01	-4.27	
[TOMA]Br-DecA (1 : 2)	308.15	190	-3.72	-3.17	-4.15	-3.65	
[TOMA]Br-DecA (1 : 2)	308.15	290	-3.31	-2.77	-3.73	-3.22	
[TOMA]Br-DecA (1 : 2)	308.15	390	-3.01	-2.49	-3.44	-2.95	
[TOMA]Br-DecA (1 : 2)	308.15	490	-2.78	-2.28	-3.22	-2.74	
[TOMA]Br-DecA (1 : 2)	308.15	790	-2.33	-1.85	-2.76	-2.30	
[TOMA]Br-DecA (1 : 2)	308.15	990	-2.12	-1.65	-2.55	-2.09	
[TOMA]Br-DecA (1 : 2)	308.15	1490	-1.75	-1.32	-2.16	-1.73	
[TOMA]Br-DecA (1 : 2)	308.15	1990	-1.49	-1.09	-1.88	-1.53	
[TOMA]Br-DecA (1 : 2)	323.15	90	-4.54	-4.21	-5.02	-4.66	
[TOMA]Br-DecA (1 : 2)	323.15	190	-3.87	-3.48	-4.28	-3.90	
[TOMA]Br-DecA (1 : 2)	323.15	290	-3.49	-3.07	-3.86	-3.47	
[TOMA]Br-DecA (1 : 2)	323.15	390	-3.16	-2.78	-3.56	-3.20	
[TOMA]Br-DecA (1 : 2)	323.15	490	-2.94	-2.57	-3.34	-2.99	
[TOMA]Br-DecA (1 : 2)	323.15	790	-2.50	-2.12	-2.86	-2.54	
[TOMA]Br-DecA (1 : 2)	323.15	990	-2.29	-1.92	-2.64	-2.32	
[TOMA]Br-DecA (1 : 2)	323.15	1490	-1.91	-1.57	-2.24	-1.96	
[TOMA]Br-DecA (1 : 2)	323.15	1990	-1.66	-1.33	-1.95	-1.75	
[Ch]Cl-EG (1 : 2)	303.15	643.6	-3.64	-3.13	-4.11	-3.67	Haider et al. (2018)[9]
[Ch]Cl-EG (1 : 2)	303.15	734.2	-3.50	-3.00	-3.98	-3.52	
[Ch]Cl-EG (1 : 2)	303.15	823.9	-3.38	-2.89	-3.86	-3.39	
[Ch]Cl-EG (1 : 2)	303.15	1046.2	-3.14	-2.65	-3.60	-3.11	
[Ch]Cl-EG (1 : 2)	303.15	1246.2	-2.96	-2.48	-3.41	-2.92	
[TBA]Br-EG (1 : 2)	303.15	412	-4.19	-2.81	-3.82	-4.17	Haider et al. (2018)[9]
[TBA]Br-EG (1 : 2)	303.15	774.8	-3.50	-2.23	-3.20	-3.44	
[TBA]Br-EG (1 : 2)	303.15	887.6	-3.49	-2.11	-3.07	-3.26	

[TBA]Br-EG (1 : 2)	303.15	1060.9	-3.15	-1.96	-2.90	-3.04	
[TBA]Br-EG (1 : 2)	303.15	1291.1	-2.92	-1.79	-2.71	-2.79	
[TBA]Br-DEG (1 : 2)	303.15	720.8	-3.40	-1.93	-2.91	-3.25	Haider et al. (2018)[9]
[TBA]Br-DEG (1 : 2)	303.15	962.5	-2.91	-1.69	-2.64	-2.86	
[TBA]Br-DEG (1 : 2)	303.15	1005	-2.83	-1.65	-2.60	-2.80	
[TBA]Br-DEG (1 : 2)	303.15	1096.3	-2.64	-1.58	-2.52	-2.68	
[TBA]Br-DEG (1 : 2)	303.15	1392.5	-2.31	-1.39	-2.30	-2.37	
[TBA]Br-MDA (1 : 2)	303.15	610.5	-3.07	-1.89	-2.88	-2.99	Haider et al. (2018)[9]
[TBA]Br-MDA (1 : 2)	303.15	734.6	-2.71	-1.74	-2.71	-2.72	
[TBA]Br-MDA (1 : 2)	303.15	823	-2.58	-1.64	-2.61	-2.54	
[TBA]Br-MDA (1 : 2)	303.15	930.6	-2.31	-1.54	-2.50	-2.34	
[TBA]Br-MDA (1 : 2)	303.15	1011.2	-2.28	-1.47	-2.42	-2.20	
[TBA]Br-DecA (1 : 2)	303.15	488	-2.86	-2.20	-3.20	-2.98	Luo et al. (2021)[10]
[TBA]Br-DecA (1 : 2)	303.15	564	-2.66	-2.07	-3.06	-2.84	
[TBA]Br-DecA (1 : 2)	303.15	654	-2.49	-1.93	-2.92	-2.68	
[TBA]Br-DecA (1 : 2)	303.15	771	-2.38	-1.79	-2.77	-2.50	
[TBA]Br-DecA (1 : 2)	303.15	914	-2.21	-1.65	-2.61	-2.31	
[TBA]Br-DecA (1 : 2)	303.15	1004	-2.11	-1.57	-2.52	-2.20	
[TBA]Br-DecA (1 : 2)	303.15	1117	-2.03	-1.48	-2.42	-2.08	
[TBA]Br-DecA (1 : 2)	313.15	470	-3.06	-2.43	-3.32	-3.20	
[TBA]Br-DecA (1 : 2)	313.15	607	-2.80	-2.20	-3.07	-2.93	
[TBA]Br-DecA (1 : 2)	313.15	653	-2.74	-2.13	-3.00	-2.85	
[TBA]Br-DecA (1 : 2)	313.15	736	-2.58	-2.02	-2.88	-2.72	
[TBA]Br-DecA (1 : 2)	313.15	841	-2.45	-1.91	-2.75	-2.57	
[TBA]Br-DecA (1 : 2)	313.15	1030	-2.27	-1.73	-2.56	-2.34	
[TBA]Br-DecA (1 : 2)	313.15	1138	-2.18	-1.64	-2.46	-2.23	
[TBA]Br-HexA (1 : 2)	303.15	474	-2.96	-2.34	-3.34	-3.11	Luo et al. (2021)[10]

[TBA]Br-HexA (1 : 2)	303.15	543	-2.78	-2.22	-3.21	-2.96	
[TBA]Br-HexA (1 : 2)	303.15	629	-2.68	-2.08	-3.07	-2.80	
[TBA]Br-HexA (1 : 2)	303.15	722	-2.54	-1.96	-2.94	-2.65	
[TBA]Br-HexA (1 : 2)	303.15	825	-2.43	-1.85	-2.82	-2.49	
[TBA]Br-HexA (1 : 2)	303.15	1058	-2.18	-1.64	-2.58	-2.20	
[TBA]Br-HexA (1 : 2)	303.15	1103	-2.11	-1.60	-2.54	-2.15	
[TBA]Br-HexA (1 : 2)	313.15	444	-3.18	-2.61	-3.49	-3.35	
[TBA]Br-HexA (1 : 2)	313.15	534	-3.02	-2.43	-3.31	-3.15	
[TBA]Br-HexA (1 : 2)	313.15	657	-2.81	-2.25	-3.11	-2.93	
[TBA]Br-HexA (1 : 2)	313.15	809	-2.63	-2.06	-2.91	-2.68	
[TBA]Br-HexA (1 : 2)	313.15	942	-2.47	-1.92	-2.76	-2.50	
[TBA]Br-HexA (1 : 2)	313.15	1056	-2.41	-1.82	-2.65	-2.37	
[TBA]Br-HexA (1 : 2)	313.15	1110	-2.34	-1.78	-2.60	-2.31	
[TBA]Br-HexA (1 : 2)	323.15	480	-3.31	-2.73	-3.50	-3.43	
[TBA]Br-HexA (1 : 2)	323.15	558	-3.13	-2.59	-3.35	-3.27	
[TBA]Br-HexA (1 : 2)	323.15	653	-2.99	-2.44	-3.20	-3.09	
[TBA]Br-HexA (1 : 2)	323.15	745	-2.87	-2.32	-3.07	-2.94	
[TBA]Br-HexA (1 : 2)	323.15	834	-2.80	-2.22	-2.95	-2.80	
[TBA]Br-HexA (1 : 2)	323.15	959	-2.70	-2.09	-2.82	-2.63	
[TBA]Br-HexA (1 : 2)	323.15	1105	-2.54	-1.97	-2.67	-2.46	
[BHDE]Cl-AC (1 : 2)	298.15	210	-4.95	-3.81	-4.90	-4.98	Sarmad et al. (2017)[6]
[BHDE]Cl-AC (1 : 2)	298.15	533	-3.83	-2.89	-3.95	-3.98	
[BHDE]Cl-AC (1 : 2)	298.15	857	-3.39	-2.42	-3.45	-3.43	
[BHDE]Cl-AC (1 : 2)	298.15	1167	-3.01	-2.12	-3.12	-3.06	
[BHDE]Cl-AC (1 : 2)	298.15	1440	-2.73	-1.92	-2.89	-2.81	
[BHDE]Cl-AC (1 : 2)	298.15	1771	-2.53	-1.72	-2.65	-2.59	
[BHDE]Cl-AC (1 : 2)	298.15	2026	-2.45	-1.59	-2.50	-2.45	
[BHDE]Cl-LA (1 : 2)	298.15	283	-6.16	-3.76	-4.84	-4.82	

[BHDE]Cl-LA (1 : 2)	298.15	516	-5.18	-3.16	-4.22	-4.25	
[BHDE]Cl-LA (1 : 2)	298.15	866	-4.15	-2.64	-3.67	-3.73	
[BHDE]Cl-LA (1 : 2)	298.15	1134	-3.77	-2.37	-3.37	-3.45	
[BHDE]Cl-LA (1 : 2)	298.15	1458	-3.34	-2.12	-3.09	-3.22	
[BHDE]Cl-LA (1 : 2)	298.15	1722	-3.01	-1.95	-2.89	-3.09	
[BHDE]Cl-LA (1 : 2)	298.15	2086	-2.79	-1.76	-2.66	-2.96	
[Ch]Cl-Phenol (1 : 2)	313.15	1990	-2.43	-1.58	-2.31	-2.51	Ji et al. (2016)[11]
[Ch]Cl-Phenol (1 : 2)	313.15	3460	-2.07	-0.92	-1.51	-2.02	
[Ch]Cl-Phenol (1 : 2)	313.15	5010	-1.83	-0.78	-1.21	-1.62	
[Ch]Cl-Phenol (1 : 2)	323.15	1710	-2.65	-1.96	-2.61	-2.80	
[Ch]Cl-Phenol (1 : 2)	323.15	2460	-2.41	-1.57	-2.14	-2.45	
[Ch]Cl-Phenol (1 : 2)	323.15	4390	-2.00	-0.87	-1.25	-1.91	
[Ch]Cl-Phenol (1 : 2)	323.15	5410	-1.87	-0.90	-1.18	-1.65	
[Ch]Cl-Phenol (1 : 2)	333.15	2820	-2.56	-1.63	-2.06	-2.45	
[Ch]Cl-Phenol (1 : 2)	333.15	3810	-2.25	-1.30	-1.63	-2.18	
[Ch]Cl-Phenol (1 : 2)	333.15	5610	-2.00	-0.77	-0.92	-1.72	
[Ch]Cl-Phenol (1 : 2)	333.15	7620	-1.76	-0.74	-0.69	-1.21	
[TEA]Br-HexA (1 : 2)	303.15	412	-3.43	-2.61	-3.62	-3.62	Luo et al. (2021)[10]
[TEA]Br-HexA (1 : 2)	303.15	521	-3.25	-2.38	-3.38	-3.37	
[TEA]Br-HexA (1 : 2)	303.15	609	-3.08	-2.24	-3.23	-3.20	
[TEA]Br-HexA (1 : 2)	303.15	688	-2.94	-2.12	-3.11	-3.06	
[TEA]Br-HexA (1 : 2)	303.15	803	-2.75	-1.98	-2.95	-2.88	
[TEA]Br-HexA (1 : 2)	303.15	913	-2.62	-1.87	-2.83	-2.72	
[TEA]Br-HexA (1 : 2)	303.15	1130	-2.42	-1.68	-2.61	-2.47	
[TEA]Br-HexA (1 : 2)	313.15	528	-3.38	-2.58	-3.46	-3.53	
[TEA]Br-HexA (1 : 2)	313.15	627	-3.21	-2.42	-3.29	-3.34	
[TEA]Br-HexA (1 : 2)	313.15	727	-3.04	-2.28	-3.14	-3.17	
[TEA]Br-HexA (1 : 2)	313.15	804	-2.89	-2.19	-3.04	-3.05	

[TEA]Br-HexA (1 : 2)	313.15	955	-2.77	-2.03	-2.86	-2.84	
[TEA]Br-HexA (1 : 2)	313.15	1084	-2.58	-1.91	-2.73	-2.68	
[TEA]Br-HexA (1 : 2)	313.15	1129	-2.54	-1.87	-2.69	-2.63	
[TEA]Br-HexA (1 : 2)	323.15	423	-3.68	-3.00	-3.77	-3.93	
[TEA]Br-HexA (1 : 2)	323.15	521	-3.49	-2.79	-3.56	-3.71	
[TEA]Br-HexA (1 : 2)	323.15	685	-3.21	-2.53	-3.28	-3.40	
[TEA]Br-HexA (1 : 2)	323.15	821	-3.04	-2.36	-3.10	-3.18	
[TEA]Br-HexA (1 : 2)	323.15	900	-2.92	-2.27	-3.00	-3.06	
[TEA]Br-HexA (1 : 2)	323.15	1132	-2.71	-2.06	-2.77	-2.78	
[TEA]Br-HexA (1 : 2)	323.15	1263	-2.60	-1.96	-2.65	-2.65	
L-menthol-thymol (1 : 2)	293.15	4020.1	-0.93		-0.77	-0.89	Alhadid et al. (2022)[2]
L-menthol-thymol (1 : 2)	293.15	3369.1	-1.06		-0.84	-1.02	
L-menthol-thymol (1 : 2)	293.15	2486	-1.34		-0.93	-1.21	
L-menthol-thymol (1 : 2)	293.15	1628.1	-1.72	-0.87	-1.88	-1.44	
L-menthol-thymol (1 : 2)	303.15	4096.7	-1.05		-0.64	-1.03	
L-menthol-thymol (1 : 2)	303.15	3424.7	-1.15		-0.71	-1.17	
L-menthol-thymol (1 : 2)	303.15	2522.9	-1.43	-0.70	-1.50	-1.36	
L-menthol-thymol (1 : 2)	303.15	1647.8	-1.80	-1.06	-1.94	-1.59	
L-menthol-thymol (1 : 2)	313.15	4154.3	-1.13		-0.51	-1.17	
L-menthol-thymol (1 : 2)	313.15	3470.3	-1.27		-0.58	-1.31	
L-menthol-thymol (1 : 2)	313.15	2554.1	-1.51	-0.87	-1.54	-1.50	
L-menthol-thymol (1 : 2)	313.15	1666.2	-1.87	-1.24	-2.00	-1.74	
L-menthol-thymol (1 : 2)	323.15	4193.9	-1.18		-0.40	-1.30	
L-menthol-thymol (1 : 2)	323.15	3505.9	-1.34	-0.78	-1.24	-1.44	
L-menthol-thymol (1 : 2)	323.15	2590	-1.57	-1.03	-1.59	-1.64	
L-menthol-thymol (1 : 2)	323.15	1681.9	-1.94	-1.41	-2.06	-1.87	
[Ch]Cl-Urea (1 : 2.5)	313.15	1150	-3.08	-2.83	-3.63	-2.95	Li et al. (2008)[3]

[Ch]Cl-Urea (1 : 2.5)	313.15	2670	-2.43	-2.09	-2.69	-2.39	
[Ch]Cl-Urea (1 : 2.5)	313.15	4530	-2.08	-1.64	-1.98	-2.00	
[Ch]Cl-Urea (1 : 2.5)	313.15	6670	-1.86	-1.27	-1.32	-1.57	
[Ch]Cl-Urea (1 : 2.5)	323.15	1060	-3.24	-3.11	-3.83	-3.16	
[Ch]Cl-Urea (1 : 2.5)	323.15	2500	-2.55	-2.34	-2.86	-2.57	
[Ch]Cl-Urea (1 : 2.5)	323.15	4120	-2.23	-1.90	-2.21	-2.22	
[Ch]Cl-Urea (1 : 2.5)	323.15	6200	-2.01	-1.54	-1.56	-1.80	
[Ch]Cl-Urea (1 : 2.5)	333.15	1080	-3.44	-3.30	-3.93	-3.27	
[Ch]Cl-Urea (1 : 2.5)	333.15	2540	-2.69	-2.51	-2.94	-2.68	
[Ch]Cl-Urea (1 : 2.5)	333.15	4030	-2.41	-2.10	-2.33	-2.36	
[Ch]Cl-Urea (1 : 2.5)	333.15	5980	-2.15	-1.75	-1.71	-1.97	
[Ch]Cl-DEG (1 : 3)	293.15	112.8	-5.60	-4.03	-5.17	-5.57	Li et al. (2014)[7]
[Ch]Cl-DEG (1 : 3)	293.15	212.2	-4.88	-3.40	-4.52	-4.85	
[Ch]Cl-DEG (1 : 3)	293.15	314.9	-4.51	-3.00	-4.11	-4.42	
[Ch]Cl-DEG (1 : 3)	293.15	409.8	-4.22	-2.74	-3.83	-4.15	
[Ch]Cl-DEG (1 : 3)	293.15	512.9	-3.97	-2.51	-3.59	-3.92	
[Ch]Cl-DEG (1 : 3)	303.15	117.7	-5.60	-4.23	-5.28	-5.70	
[Ch]Cl-DEG (1 : 3)	303.15	215.1	-4.98	-3.63	-4.66	-5.01	
[Ch]Cl-DEG (1 : 3)	303.15	321.3	-4.56	-3.23	-4.24	-4.58	
[Ch]Cl-DEG (1 : 3)	303.15	415.1	-4.30	-2.97	-3.97	-4.32	
[Ch]Cl-DEG (1 : 3)	303.15	524	-4.08	-2.74	-3.72	-4.08	
[Ch]Cl-DEG (1 : 3)	313.15	116.9	-5.81	-4.46	-5.43	-5.87	
[Ch]Cl-DEG (1 : 3)	313.15	219.6	-5.13	-3.83	-4.78	-5.16	
[Ch]Cl-DEG (1 : 3)	313.15	327	-4.70	-3.43	-4.36	-4.73	
[Ch]Cl-DEG (1 : 3)	313.15	417.7	-4.47	-3.18	-4.10	-4.48	
[Ch]Cl-DEG (1 : 3)	313.15	515.7	-4.25	-2.97	-3.87	-4.26	
[Ch]Cl-DEG (1 : 3)	323.15	122.5	-5.99	-4.62	-5.50	-5.97	
[Ch]Cl-DEG (1 : 3)	323.15	220.3	-5.38	-4.03	-4.90	-5.31	

[Ch]Cl-DEG (1 : 3)	323.15	321	-4.99	-3.65	-4.50	-4.91	
[Ch]Cl-DEG (1 : 3)	323.15	421.2	-4.69	-3.38	-4.21	-4.63	
[Ch]Cl-DEG (1 : 3)	323.15	518	-4.46	-3.17	-3.99	-4.42	
[Ch]Cl-FA (1 : 3)	303.15	80.9	-5.84	-4.57	-5.63	-5.92	Lu et al. (2015)[12]
[Ch]Cl-FA (1 : 3)	303.15	218.3	-4.88	-3.57	-4.61	-4.90	
[Ch]Cl-FA (1 : 3)	303.15	323.7	-4.47	-3.18	-4.19	-4.50	
[Ch]Cl-FA (1 : 3)	303.15	425.3	-4.22	-2.90	-3.90	-4.22	
[Ch]Cl-FA (1 : 3)	303.15	524.1	-4.02	-2.69	-3.67	-4.01	
[Ch]Cl-FA (1 : 3)	303.15	582.8	-3.93	-2.58	-3.56	-3.90	
[Ch]Cl-FA (1 : 3)	313.15	80.8	-6.03	-4.79	-5.77	-6.08	
[Ch]Cl-FA (1 : 3)	313.15	214.6	-5.07	-3.81	-4.77	-5.09	
[Ch]Cl-FA (1 : 3)	313.15	321.4	-4.66	-3.41	-4.34	-4.67	
[Ch]Cl-FA (1 : 3)	313.15	426.7	-4.37	-3.12	-4.04	-4.39	
[Ch]Cl-FA (1 : 3)	313.15	523.2	-4.17	-2.92	-3.81	-4.18	
[Ch]Cl-FA (1 : 3)	313.15	581.7	-4.06	-2.81	-3.70	-4.06	
[Ch]Cl-FA (1 : 3)	323.15	81.5	-6.07	-4.99	-5.89	-6.21	
[Ch]Cl-FA (1 : 3)	323.15	222.1	-5.19	-3.99	-4.86	-5.20	
[Ch]Cl-FA (1 : 3)	323.15	329.6	-4.78	-3.59	-4.44	-4.80	
[Ch]Cl-FA (1 : 3)	323.15	428.9	-4.51	-3.33	-4.16	-4.53	
[Ch]Cl-FA (1 : 3)	323.15	528.6	-4.31	-3.11	-3.93	-4.31	
[Ch]Cl-FA (1 : 3)	323.15	585.3	-4.21	-3.01	-3.82	-4.20	
[Ch]Cl-FA (1 : 3)	333.15	86.3	-6.32	-5.13	-5.94	-6.30	
[Ch]Cl-FA (1 : 3)	333.15	224.4	-5.36	-4.17	-4.96	-5.33	
[Ch]Cl-FA (1 : 3)	333.15	330.3	-4.93	-3.78	-4.56	-4.94	
[Ch]Cl-FA (1 : 3)	333.15	430.4	-4.66	-3.51	-4.27	-4.67	
[Ch]Cl-FA (1 : 3)	333.15	530.6	-4.44	-3.30	-4.05	-4.45	
[Ch]Cl-FA (1 : 3)	333.15	586.4	-4.35	-3.20	-3.94	-4.34	
[Ch]Cl-LEV (1 : 3)	303.15	79.4	-5.45	-4.69	-5.74	-5.41	Lu et al. (2015)[12]

[Ch]Cl-LEV (1 : 3)	303.15	208.4	-4.50	-3.72	-4.76	-4.49	
[Ch]Cl-LEV (1 : 3)	303.15	310.9	-4.11	-3.32	-4.34	-4.08	
[Ch]Cl-LEV (1 : 3)	303.15	411.9	-3.84	-3.04	-4.04	-3.79	
[Ch]Cl-LEV (1 : 3)	303.15	510.9	-3.61	-2.82	-3.81	-3.56	
[Ch]Cl-LEV (1 : 3)	303.15	570	-3.50	-2.71	-3.69	-3.43	
[Ch]Cl-LEV (1 : 3)	313.15	69.8	-5.78	-5.04	-6.01	-5.70	
[Ch]Cl-LEV (1 : 3)	313.15	202.5	-4.71	-3.97	-4.92	-4.72	
[Ch]Cl-LEV (1 : 3)	313.15	306.8	-4.28	-3.56	-4.49	-4.30	
[Ch]Cl-LEV (1 : 3)	313.15	410.9	-4.01	-3.26	-4.18	-4.00	
[Ch]Cl-LEV (1 : 3)	313.15	508.5	-3.78	-3.05	-3.95	-3.77	
[Ch]Cl-LEV (1 : 3)	313.15	579.8	-3.65	-2.92	-3.81	-3.61	
[Ch]Cl-LEV (1 : 3)	323.15	80.8	-5.91	-5.10	-5.99	-5.76	
[Ch]Cl-LEV (1 : 3)	323.15	210	-4.89	-4.14	-5.01	-4.86	
[Ch]Cl-LEV (1 : 3)	323.15	314	-4.48	-3.74	-4.59	-4.46	
[Ch]Cl-LEV (1 : 3)	323.15	417.6	-4.20	-3.45	-4.29	-4.17	
[Ch]Cl-LEV (1 : 3)	323.15	517.8	-3.98	-3.24	-4.06	-3.93	
[Ch]Cl-LEV (1 : 3)	323.15	579.7	-3.87	-3.12	-3.93	-3.79	
[Ch]Cl-LEV (1 : 3)	333.15	85.9	-5.99	-5.23	-6.05	-5.88	
[Ch]Cl-LEV (1 : 3)	333.15	219.8	-5.02	-4.29	-5.08	-4.99	
[Ch]Cl-LEV (1 : 3)	333.15	321.6	-4.59	-3.91	-4.69	-4.61	
[Ch]Cl-LEV (1 : 3)	333.15	425.2	-4.32	-3.63	-4.39	-4.32	
[Ch]Cl-LEV (1 : 3)	333.15	524.9	-4.12	-3.42	-4.16	-4.08	
[Ch]Cl-LEV (1 : 3)	333.15	583	-4.00	-3.31	-4.04	-3.96	
[Ch]Cl-Phenol (1 : 3)	293.15	104.4	-5.45	-3.98	-5.12	-5.47	Li et al. (2014)[7]
[Ch]Cl-Phenol (1 : 3)	293.15	206.3	-4.76	-3.29	-4.42	-4.75	
[Ch]Cl-Phenol (1 : 3)	293.15	307.7	-4.36	-2.89	-4.00	-4.32	
[Ch]Cl-Phenol (1 : 3)	293.15	406.2	-4.11	-2.60	-3.70	-4.04	
[Ch]Cl-Phenol (1 : 3)	293.15	508.5	-3.85	-2.37	-3.45	-3.81	

[Ch]Cl-Phenol (1 : 3)	303.15	113.1	-5.66	-4.15	-5.20	-5.57	
[Ch]Cl-Phenol (1 : 3)	303.15	217.6	-4.99	-3.49	-4.53	-4.87	
[Ch]Cl-Phenol (1 : 3)	303.15	316.3	-4.58	-3.11	-4.13	-4.48	
[Ch]Cl-Phenol (1 : 3)	303.15	418.3	-4.28	-2.83	-3.83	-4.20	
[Ch]Cl-Phenol (1 : 3)	303.15	514.2	-4.03	-2.62	-3.60	-3.98	
[Ch]Cl-Phenol (1 : 3)	313.15	116	-5.74	-4.35	-5.32	-5.72	
[Ch]Cl-Phenol (1 : 3)	313.15	218.1	-5.05	-3.72	-4.67	-5.05	
[Ch]Cl-Phenol (1 : 3)	313.15	317.3	-4.66	-3.34	-4.27	-4.66	
[Ch]Cl-Phenol (1 : 3)	313.15	411.5	-4.39	-3.08	-3.99	-4.39	
[Ch]Cl-Phenol (1 : 3)	313.15	506.8	-4.16	-2.86	-3.76	-4.17	
[Ch]Cl-Phenol (1 : 3)	323.15	123.4	-5.84	-4.50	-5.39	-5.82	
[Ch]Cl-Phenol (1 : 3)	323.15	218.1	-5.22	-3.93	-4.80	-5.21	
[Ch]Cl-Phenol (1 : 3)	323.15	318.2	-4.84	-3.55	-4.40	-4.82	
[Ch]Cl-Phenol (1 : 3)	323.15	412.5	-4.55	-3.29	-4.13	-4.55	
[Ch]Cl-Phenol (1 : 3)	323.15	513.6	-4.32	-3.07	-3.89	-4.32	
[Ch]Cl-TEG (1 : 3)	293.15	109.3	-5.26	-3.56	-4.70	-5.21	Li et al. (2014)[7]
[Ch]Cl-TEG (1 : 3)	293.15	208.6	-4.53	-2.91	-4.04	-4.49	
[Ch]Cl-TEG (1 : 3)	293.15	315.9	-4.10	-2.50	-3.60	-4.03	
[Ch]Cl-TEG (1 : 3)	293.15	403.3	-3.85	-2.25	-3.34	-3.76	
[Ch]Cl-TEG (1 : 3)	293.15	504	-3.60	-2.02	-3.10	-3.52	
[Ch]Cl-TEG (1 : 3)	303.15	119.3	-5.36	-3.71	-4.76	-5.31	
[Ch]Cl-TEG (1 : 3)	303.15	212.9	-4.72	-3.13	-4.17	-4.66	
[Ch]Cl-TEG (1 : 3)	303.15	319.4	-4.28	-2.73	-3.74	-4.22	
[Ch]Cl-TEG (1 : 3)	303.15	416.7	-3.97	-2.46	-3.46	-3.93	
[Ch]Cl-TEG (1 : 3)	303.15	512.7	-3.76	-2.25	-3.23	-3.70	
[Ch]Cl-TEG (1 : 3)	313.15	114	-5.57	-3.98	-4.95	-5.54	
[Ch]Cl-TEG (1 : 3)	313.15	220.8	-4.85	-3.32	-4.27	-4.81	
[Ch]Cl-TEG (1 : 3)	313.15	318.2	-4.50	-2.95	-3.89	-4.41	

[Ch]Cl-TEG (1 : 3)	313.15	414.9	-4.17	-2.69	-3.60	-4.12	
[Ch]Cl-TEG (1 : 3)	313.15	510.6	-3.94	-2.48	-3.38	-3.89	
[Ch]Cl-TEG (1 : 3)	323.15	119.2	-5.68	-4.14	-5.03	-5.65	
[Ch]Cl-TEG (1 : 3)	323.15	216.7	-5.04	-3.55	-4.42	-4.99	
[Ch]Cl-TEG (1 : 3)	323.15	318.8	-4.66	-3.16	-4.01	-4.57	
[Ch]Cl-TEG (1 : 3)	323.15	418.6	-4.34	-2.89	-3.72	-4.28	
[Ch]Cl-TEG (1 : 3)	323.15	516	-4.12	-2.68	-3.50	-4.04	
[MTPP]Br-LEV (1 : 3)	298.15	301	-5.47	-2.87	-3.94	-5.25	Sarmad et al. (2017)[6]
[MTPP]Br-LEV (1 : 3)	298.15	698	-4.38	-2.09	-3.08	-4.24	
[MTPP]Br-LEV (1 : 3)	298.15	994	-3.59	-1.77	-2.72	-3.62	
[MTPP]Br-LEV (1 : 3)	298.15	1209	-3.08	-1.60	-2.51	-3.24	
[MTPP]Br-LEV (1 : 3)	298.15	1526	-2.72	-1.41	-2.26	-2.80	
[MTPP]Br-LEV (1 : 3)	298.15	1759	-2.39	-1.18	-2.00	-2.56	
[MTPP]Br-LEV (1 : 3)	298.15	2068	-2.22	-1.04	-1.80	-2.33	
[TEA]Cl-AC (1 : 3)	298.15	397	-4.53	-3.06	-4.10	-4.11	Sarmad et al. (2017)[6]
[TEA]Cl-AC (1 : 3)	298.15	654	-3.63	-2.58	-3.59	-3.61	
[TEA]Cl-AC (1 : 3)	298.15	957	-3.17	-2.23	-3.18	-3.20	
[TEA]Cl-AC (1 : 3)	298.15	1230	-2.82	-2.00	-2.90	-2.95	
[TEA]Cl-AC (1 : 3)	298.15	1634	-2.55	-1.74	-2.58	-2.68	
[TEA]Cl-AC (1 : 3)	298.15	2016	-2.34	-1.56	-2.33	-2.51	
[TEA]Cl-OctA (1 : 3)	298.15	353	-3.77	-2.66	-3.72	-3.54	Sarmad et al. (2017)[6]
[TEA]Cl-OctA (1 : 3)	298.15	624	-3.02	-2.12	-3.13	-3.02	
[TEA]Cl-OctA (1 : 3)	298.15	940	-2.50	-1.73	-2.68	-2.65	
[TEA]Cl-OctA (1 : 3)	298.15	1277	-2.18	-1.45	-2.34	-2.38	
[TEA]Cl-OctA (1 : 3)	298.15	1619	-1.96	-1.23	-2.07	-2.20	
[TEA]Cl-OctA (1 : 3)	298.15	2018	-1.76	-1.01	-1.78	-2.05	

[MTPP]Br-EG (1 : 3)	298.15	192	-5.10	-3.71	-4.79	-5.81	Sarmad et al. (2017)[6]
[MTPP]Br-EG (1 : 3)	298.15	437	-4.42	-2.92	-3.96	-4.90	
[MTPP]Br-EG (1 : 3)	298.15	710	-4.00	-2.47	-3.46	-4.32	
[MTPP]Br-EG (1 : 3)	298.15	1134	-3.67	-2.06	-2.98	-3.67	
[MTPP]Br-EG (1 : 3)	298.15	1528	-3.44	-1.80	-2.66	-3.28	
[MTPP]Br-EG (1 : 3)	298.15	2018	-3.09	-1.58	-2.35	-2.99	
[Ch]Cl-1,4-butanediol (1 : 3)	293.15	110.9	-5.68	-4.19	-5.33	-5.80	Chen et al. (2014)[13]
[Ch]Cl-1,4-butanediol (1 : 3)	293.15	212.5	-4.98	-3.53	-4.66	-5.03	
[Ch]Cl-1,4-butanediol (1 : 3)	293.15	312.5	-4.61	-3.14	-4.25	-4.60	
[Ch]Cl-1,4-butanediol (1 : 3)	293.15	412	-4.34	-2.86	-3.96	-4.32	
[Ch]Cl-1,4-butanediol (1 : 3)	293.15	509.7	-4.11	-2.65	-3.72	-4.10	
[Ch]Cl-1,4-butanediol (1 : 3)	303.15	113.1	-5.78	-4.40	-5.45	-5.98	
[Ch]Cl-1,4-butanediol (1 : 3)	303.15	217.4	-5.12	-3.75	-4.78	-5.22	
[Ch]Cl-1,4-butanediol (1 : 3)	303.15	307.6	-4.74	-3.40	-4.41	-4.83	
[Ch]Cl-1,4-butanediol (1 : 3)	303.15	406.3	-4.45	-3.11	-4.12	-4.54	
[Ch]Cl-1,4-butanediol (1 : 3)	303.15	497.5	-4.25	-2.91	-3.90	-4.34	
[Ch]Cl-1,4-butanediol (1 : 3)	313.15	121.4	-5.88	-4.54	-5.51	-6.10	
[Ch]Cl-1,4-butanediol (1 : 3)	313.15	233.1	-5.26	-3.89	-4.84	-5.35	
[Ch]Cl-1,4-butanediol (1 : 3)	313.15	321.6	-4.92	-3.57	-4.50	-5.00	
[Ch]Cl-1,4-butanediol (1 : 3)	313.15	410.2	-4.64	-3.32	-4.24	-4.74	
[Ch]Cl-1,4-butanediol (1 : 3)	313.15	502.8	-4.41	-3.11	-4.02	-4.54	
[Ch]Cl-1,4-butanediol (1 : 3)	323.15	122.8	-5.99	-4.73	-5.62	-6.28	
[Ch]Cl-1,4-butanediol (1 : 3)	323.15	218.3	-5.47	-4.15	-5.02	-5.61	
[Ch]Cl-1,4-butanediol (1 : 3)	323.15	325.2	-5.05	-3.75	-4.61	-5.18	
[Ch]Cl-1,4-butanediol (1 : 3)	323.15	425.9	-4.77	-3.48	-4.32	-4.90	
[Ch]Cl-1,4-butanediol (1 : 3)	323.15	525.9	-4.58	-3.27	-4.09	-4.68	
[Ch]Cl-2,3-butanediol (1 : 3)	293.15	114.3	-5.78	-4.18	-5.33	-5.38	Chen et al. (2014)[13]

[Ch]Cl-2,3-butanediol (1 : 3)	293.15	214	-5.10	-3.55	-4.68	-4.68	
[Ch]Cl-2,3-butanediol (1 : 3)	293.15	316.6	-4.70	-3.16	-4.26	-4.26	
[Ch]Cl-2,3-butanediol (1 : 3)	293.15	407.9	-4.41	-2.90	-3.99	-4.01	
[Ch]Cl-2,3-butanediol (1 : 3)	293.15	511.3	-4.19	-2.67	-3.74	-3.78	
[Ch]Cl-2,3-butanediol (1 : 3)	303.15	114	-5.88	-4.41	-5.46	-5.59	
[Ch]Cl-2,3-butanediol (1 : 3)	303.15	214.6	-5.15	-3.77	-4.81	-4.89	
[Ch]Cl-2,3-butanediol (1 : 3)	303.15	315.2	-4.80	-3.39	-4.40	-4.48	
[Ch]Cl-2,3-butanediol (1 : 3)	303.15	412.3	-4.49	-3.12	-4.12	-4.21	
[Ch]Cl-2,3-butanediol (1 : 3)	303.15	513.4	-4.28	-2.89	-3.88	-3.98	
[Ch]Cl-2,3-butanediol (1 : 3)	313.15	119.3	-5.84	-4.57	-5.54	-5.74	
[Ch]Cl-2,3-butanediol (1 : 3)	313.15	222.4	-5.22	-3.94	-4.89	-5.06	
[Ch]Cl-2,3-butanediol (1 : 3)	313.15	325.5	-4.84	-3.56	-4.49	-4.66	
[Ch]Cl-2,3-butanediol (1 : 3)	313.15	424.9	-4.59	-3.29	-4.21	-4.39	
[Ch]Cl-2,3-butanediol (1 : 3)	313.15	528.8	-4.37	-3.07	-3.97	-4.16	
[Ch]Cl-2,3-butanediol (1 : 3)	323.15	124	-5.95	-4.72	-5.61	-5.89	
[Ch]Cl-2,3-butanediol (1 : 3)	323.15	217	-5.36	-4.16	-5.03	-5.27	
[Ch]Cl-2,3-butanediol (1 : 3)	323.15	322	-4.95	-3.76	-4.61	-4.86	
[Ch]Cl-2,3-butanediol (1 : 3)	323.15	421.5	-4.69	-3.49	-4.33	-4.58	
[Ch]Cl-2,3-butanediol (1 : 3)	323.15	514.1	-4.46	-3.24	-4.06	-4.38	
[Ch]Cl-1,2-propanediol (1 : 3)	293.15	108.5	-5.71	-4.52	-5.66	-5.83	Chen et al. (2014)[13]
[Ch]Cl-1,2-propanediol (1 : 3)	293.15	204.7	-5.07	-3.88	-5.00	-5.11	
[Ch]Cl-1,2-propanediol (1 : 3)	293.15	312.2	-4.63	-3.45	-4.56	-4.65	
[Ch]Cl-1,2-propanediol (1 : 3)	293.15	408.8	-4.34	-3.18	-4.27	-4.39	
[Ch]Cl-1,2-propanediol (1 : 3)	293.15	514.5	-4.10	-2.95	-4.02	-4.17	
[Ch]Cl-1,2-propanediol (1 : 3)	303.15	117.5	-5.88	-4.66	-5.71	-5.95	
[Ch]Cl-1,2-propanediol (1 : 3)	303.15	222.1	-5.12	-4.02	-5.05	-5.22	
[Ch]Cl-1,2-propanediol (1 : 3)	303.15	317	-4.78	-3.66	-4.68	-4.84	
[Ch]Cl-1,2-propanediol (1 : 3)	303.15	422	-4.48	-3.37	-4.37	-4.56	

[Ch]Cl-1,2-propanediol (1 : 3)	303.15	517	-4.27	-3.16	-4.15	-4.37	
[Ch]Cl-1,2-propanediol (1 : 3)	313.15	125.4	-6.03	-4.79	-5.76	-6.07	
[Ch]Cl-1,2-propanediol (1 : 3)	313.15	217.8	-5.43	-4.24	-5.19	-5.45	
[Ch]Cl-1,2-propanediol (1 : 3)	313.15	317.6	-5.01	-3.86	-4.79	-5.05	
[Ch]Cl-1,2-propanediol (1 : 3)	313.15	420.5	-4.68	-3.58	-4.49	-4.77	
[Ch]Cl-1,2-propanediol (1 : 3)	313.15	515.4	-4.47	-3.37	-4.27	-4.57	
[Ch]Cl-1,2-propanediol (1 : 3)	323.15	123	-6.27	-5.00	-5.88	-6.27	
[Ch]Cl-1,2-propanediol (1 : 3)	323.15	236	-5.55	-4.34	-5.21	-5.54	
[Ch]Cl-1,2-propanediol (1 : 3)	323.15	334.3	-5.13	-3.99	-4.84	-5.18	
[Ch]Cl-1,2-propanediol (1 : 3)	323.15	426.3	-4.85	-3.75	-4.58	-4.94	
[Ch]Cl-1,2-propanediol (1 : 3)	323.15	524.7	-4.67	-3.54	-4.36	-4.73	
[Ch]Cl-DEG (1 : 3)	303.15	564.2	-4.01	-2.66	-3.64	-4.00	Haider et al. (2018)[9]
[Ch]Cl-DEG (1 : 3)	303.15	678.3	-3.83	-2.48	-3.43	-3.80	
[Ch]Cl-DEG (1 : 3)	303.15	735.6	-3.75	-2.39	-3.34	-3.71	
[Ch]Cl-DEG (1 : 3)	303.15	865.3	-3.59	-2.23	-3.15	-3.53	
[Ch]Cl-DEG (1 : 3)	303.15	934.2	-3.41	-2.15	-3.06	-3.44	
[Ch]Cl-DEG (1 : 3)	303.15	1112	-3.35	-1.98	-2.86	-3.25	
[TBA]Br-EG (1 : 3)	303.15	502.5	-4.09	-2.84	-3.82	-3.81	Haider et al. (2018)[9]
[TBA]Br-EG (1 : 3)	303.15	744.4	-3.51	-2.48	-3.42	-3.40	
[TBA]Br-EG (1 : 3)	303.15	805.8	-3.43	-2.41	-3.34	-3.32	
[TBA]Br-EG (1 : 3)	303.15	895.2	-3.32	-2.31	-3.23	-3.20	
[TBA]Br-EG (1 : 3)	303.15	1085.6	-3.14	-2.14	-3.03	-3.00	
[TBA]Br-EG (1 : 3)	303.15	1249.1	-2.96	-2.02	-2.88	-2.86	
[TBA]Br-DEG (1 : 3)	303.15	688.5	-3.26	-2.09	-3.04	-3.30	Haider et al. (2018)[9]
[TBA]Br-DEG (1 : 3)	303.15	896.3	-2.83	-1.86	-2.78	-2.99	
[TBA]Br-DEG (1 : 3)	303.15	1094.6	-2.57	-1.69	-2.58	-2.76	
[TBA]Br-DEG (1 : 3)	303.15	1205	-2.43	-1.62	-2.48	-2.65	

[TBA]Br-MDA (1 : 3)	303.15	423.2	-2.45	-2.30	-3.30	-2.69	Haider et al. (2018)[9]
[TBA]Br-MDA (1 : 3)	303.15	512.5	-2.33	-2.13	-3.12	-2.47	
[TBA]Br-MDA (1 : 3)	303.15	614.1	-2.15	-1.97	-2.94	-2.26	
[TBA]Br-MDA (1 : 3)	303.15	732.1	-1.91	-1.82	-2.77	-2.05	
[TBA]Br-MDA (1 : 3)	303.15	816.7	-1.79	-1.73	-2.66	-1.91	
[TBA]Br-MDA (1 : 3)	303.15	1000	-1.59	-1.57	-2.47	-1.64	
[ACh]Cl-Imidazole (1 : 3)	303.15	52.8	-5.91	-5.08	-6.14	-6.02	Li et al. (2018)[1]
[ACh]Cl-Imidazole (1 : 3)	303.15	91	-5.22	-4.53	-5.59	-5.56	
[ACh]Cl-Imidazole (1 : 3)	303.15	200.3	-4.57	-3.75	-4.79	-4.73	
[ACh]Cl-Imidazole (1 : 3)	303.15	291.4	-4.20	-3.38	-4.40	-4.34	
[ACh]Cl-Imidazole (1 : 3)	303.15	385.4	-3.98	-3.10	-4.10	-4.06	
[ACh]Cl-Imidazole (1 : 3)	303.15	478.6	-3.75	-2.88	-3.87	-3.86	
[ACh]Cl-Imidazole (1 : 3)	303.15	567.6	-3.59	-2.71	-3.69	-3.70	
[ACh]Cl-Imidazole (1 : 3)	313.15	29.2	-6.03	-5.90	-6.89	-6.53	
[ACh]Cl-Imidazole (1 : 3)	313.15	59.9	-5.68	-5.19	-6.16	-6.09	
[ACh]Cl-Imidazole (1 : 3)	313.15	87.8	-5.34	-4.80	-5.78	-5.76	
[ACh]Cl-Imidazole (1 : 3)	313.15	140.2	-4.99	-4.34	-5.30	-5.28	
[ACh]Cl-Imidazole (1 : 3)	313.15	233.6	-4.57	-3.83	-4.77	-4.74	
[ACh]Cl-Imidazole (1 : 3)	313.15	337	-4.28	-3.46	-4.39	-4.37	
[ACh]Cl-Imidazole (1 : 3)	313.15	424.5	-4.06	-3.23	-4.15	-4.15	
[ACh]Cl-Imidazole (1 : 3)	313.15	522.8	-3.87	-3.03	-3.92	-3.95	
[ACh]Cl-Imidazole (1 : 3)	313.15	583.6	-3.78	-2.92	-3.80	-3.84	
[ACh]Cl-Imidazole (1 : 3)	323.15	26.3	-6.57	-6.23	-7.13	-6.73	
[ACh]Cl-Imidazole (1 : 3)	323.15	58	-5.88	-5.44	-6.33	-6.26	
[ACh]Cl-Imidazole (1 : 3)	323.15	87.5	-5.63	-5.02	-5.92	-5.92	
[ACh]Cl-Imidazole (1 : 3)	323.15	139.1	-5.22	-4.56	-5.45	-5.45	
[ACh]Cl-Imidazole (1 : 3)	323.15	238.7	-4.80	-4.02	-4.89	-4.87	

[ACh]Cl-Imidazole (1 : 3)	323.15	337.1	-4.47	-3.68	-4.53	-4.53	
[ACh]Cl-Imidazole (1 : 3)	323.15	426	-4.26	-3.44	-4.28	-4.30	
[ACh]Cl-Imidazole (1 : 3)	323.15	531	-4.06	-3.23	-4.04	-4.09	
[ACh]Cl-Imidazole (1 : 3)	323.15	587.3	-3.96	-3.12	-3.93	-3.99	
[ACh]Cl-Imidazole (1 : 3)	333.15	28.6	-7.13	-6.34	-7.17	-6.82	
[ACh]Cl-Imidazole (1 : 3)	333.15	58.3	-6.44	-5.63	-6.46	-6.40	
[ACh]Cl-Imidazole (1 : 3)	333.15	87.1	-6.07	-5.23	-6.05	-6.06	
[ACh]Cl-Imidazole (1 : 3)	333.15	146.1	-5.57	-4.71	-5.52	-5.54	
[ACh]Cl-Imidazole (1 : 3)	333.15	239.7	-5.08	-4.22	-5.01	-5.01	
[ACh]Cl-Imidazole (1 : 3)	333.15	354.3	-4.70	-3.83	-4.60	-4.62	
[ACh]Cl-Imidazole (1 : 3)	333.15	432.2	-4.49	-3.63	-4.39	-4.43	
[ACh]Cl-Imidazole (1 : 3)	333.15	525.8	-4.30	-3.44	-4.18	-4.24	
[ACh]Cl-Imidazole (1 : 3)	333.15	591.6	-4.19	-3.32	-4.05	-4.13	
[Ch]Cl-Guaiacol (1 : 3)	293.15	51.5	-6.17	-4.43	-5.59	-6.15	Liu et al. (2017)[14]
[Ch]Cl-Guaiacol (1 : 3)	293.15	138.1	-5.20	-3.45	-4.58	-5.27	
[Ch]Cl-Guaiacol (1 : 3)	293.15	236.7	-4.67	-2.90	-4.02	-4.70	
[Ch]Cl-Guaiacol (1 : 3)	293.15	329.2	-4.34	-2.57	-3.67	-4.36	
[Ch]Cl-Guaiacol (1 : 3)	293.15	427.5	-4.08	-2.30	-3.39	-4.11	
[Ch]Cl-Guaiacol (1 : 3)	293.15	529.4	-3.84	-2.09	-3.16	-3.90	
[Ch]Cl-Guaiacol (1 : 3)	303.15	55.3	-6.21	-4.61	-5.67	-6.23	
[Ch]Cl-Guaiacol (1 : 3)	303.15	132.3	-5.40	-3.73	-4.78	-5.45	
[Ch]Cl-Guaiacol (1 : 3)	303.15	243.8	-4.80	-3.12	-4.15	-4.81	
[Ch]Cl-Guaiacol (1 : 3)	303.15	335.5	-4.48	-2.80	-3.81	-4.49	
[Ch]Cl-Guaiacol (1 : 3)	303.15	433.8	-4.23	-2.54	-3.53	-4.24	
[Ch]Cl-Guaiacol (1 : 3)	303.15	533.2	-4.03	-2.33	-3.31	-4.04	
[Ch]Cl-Guaiacol (1 : 3)	313.15	57.5	-6.38	-4.79	-5.77	-6.34	
[Ch]Cl-Guaiacol (1 : 3)	313.15	145.7	-5.50	-3.86	-4.82	-5.49	
[Ch]Cl-Guaiacol (1 : 3)	313.15	233.2	-5.04	-3.39	-4.33	-4.99	

[Ch]Cl-Guaiacol (1 : 3)	313.15	330.3	-4.68	-3.04	-3.97	-4.64	
[Ch]Cl-Guaiacol (1 : 3)	313.15	429.6	-4.41	-2.77	-3.69	-4.39	
[Ch]Cl-Guaiacol (1 : 3)	313.15	529.4	-4.20	-2.56	-3.46	-4.18	
[Ch]Cl-Guaiacol (1 : 3)	323.15	63.1	-6.57	-4.91	-5.80	-6.39	
[Ch]Cl-Guaiacol (1 : 3)	323.15	160.6	-5.55	-3.97	-4.85	-5.51	
[Ch]Cl-Guaiacol (1 : 3)	323.15	239.9	-5.17	-3.57	-4.43	-5.09	
[Ch]Cl-Guaiacol (1 : 3)	323.15	341.4	-4.79	-3.21	-4.06	-4.74	
[Ch]Cl-Guaiacol (1 : 3)	323.15	442.6	-4.54	-2.95	-3.78	-4.49	
[Ch]Cl-Guaiacol (1 : 3)	323.15	536.5	-4.36	-2.76	-3.57	-4.30	
[DEA]Cl-Guaiacol (1 : 3)	293.15	45.1	-6.03	-4.59	-5.74	-5.97	Liu et al. (2017)[14]
[DEA]Cl-Guaiacol (1 : 3)	293.15	137.1	-5.04	-3.48	-4.61	-5.03	
[DEA]Cl-Guaiacol (1 : 3)	293.15	222.8	-4.55	-2.99	-4.11	-4.53	
[DEA]Cl-Guaiacol (1 : 3)	293.15	320.6	-4.17	-2.62	-3.73	-4.16	
[DEA]Cl-Guaiacol (1 : 3)	293.15	414.9	-3.91	-2.36	-3.45	-3.90	
[DEA]Cl-Guaiacol (1 : 3)	293.15	517.7	-3.69	-2.13	-3.20	-3.64	
[DEA]Cl-Guaiacol (1 : 3)	303.15	53.9	-6.03	-4.66	-5.72	-5.97	
[DEA]Cl-Guaiacol (1 : 3)	303.15	133.6	-5.12	-3.75	-4.80	-5.19	
[DEA]Cl-Guaiacol (1 : 3)	303.15	241.5	-4.58	-3.15	-4.18	-4.59	
[DEA]Cl-Guaiacol (1 : 3)	303.15	339.1	-4.25	-2.81	-3.82	-4.25	
[DEA]Cl-Guaiacol (1 : 3)	303.15	428.8	-4.02	-2.57	-3.57	-4.00	
[DEA]Cl-Guaiacol (1 : 3)	303.15	513.5	-3.84	-2.39	-3.37	-3.79	
[DEA]Cl-Guaiacol (1 : 3)	313.15	59.2	-6.03	-4.79	-5.77	-6.03	
[DEA]Cl-Guaiacol (1 : 3)	313.15	182.9	-4.99	-3.66	-4.62	-5.00	
[DEA]Cl-Guaiacol (1 : 3)	313.15	271.2	-4.61	-3.26	-4.20	-4.61	
[DEA]Cl-Guaiacol (1 : 3)	313.15	357.5	-4.34	-2.98	-3.91	-4.33	
[DEA]Cl-Guaiacol (1 : 3)	313.15	436.4	-4.14	-2.78	-3.69	-4.12	
[DEA]Cl-Guaiacol (1 : 3)	313.15	524.6	-3.97	-2.60	-3.49	-3.91	
[DEA]Cl-Guaiacol (1 : 3)	323.15	56.6	-6.27	-5.05	-5.94	-6.17	

[DEA]Cl-Guaiacol (1 : 3)	323.15	143.4	-5.36	-4.11	-5.00	-5.36	
[DEA]Cl-Guaiacol (1 : 3)	323.15	246	-4.83	-3.57	-4.44	-4.82	
[DEA]Cl-Guaiacol (1 : 3)	323.15	331.9	-4.55	-3.27	-4.12	-4.53	
[DEA]Cl-Guaiacol (1 : 3)	323.15	428.9	-4.29	-3.01	-3.85	-4.27	
[DEA]Cl-Guaiacol (1 : 3)	323.15	525.4	-4.09	-2.81	-3.62	-4.03	
[ACh]Cl-Guaiacol (1 : 3)	293.15	53.7	-5.95	-4.37	-5.52	-5.93	Liu et al. (2017)[14]
[ACh]Cl-Guaiacol (1 : 3)	293.15	144.3	-5.02	-3.38	-4.51	-5.01	
[ACh]Cl-Guaiacol (1 : 3)	293.15	234.1	-4.50	-2.89	-4.01	-4.49	
[ACh]Cl-Guaiacol (1 : 3)	293.15	331.7	-4.14	-2.54	-3.64	-4.14	
[ACh]Cl-Guaiacol (1 : 3)	293.15	428.8	-3.88	-2.28	-3.37	-3.90	
[ACh]Cl-Guaiacol (1 : 3)	293.15	528.6	-3.67	-2.07	-3.14	-3.71	
[ACh]Cl-Guaiacol (1 : 3)	303.15	53.8	-6.07	-4.61	-5.67	-6.06	
[ACh]Cl-Guaiacol (1 : 3)	303.15	139.6	-5.17	-3.65	-4.70	-5.18	
[ACh]Cl-Guaiacol (1 : 3)	303.15	227.1	-4.68	-3.16	-4.20	-4.66	
[ACh]Cl-Guaiacol (1 : 3)	303.15	329.5	-4.31	-2.79	-3.81	-4.29	
[ACh]Cl-Guaiacol (1 : 3)	303.15	431.7	-4.05	-2.52	-3.52	-4.03	
[ACh]Cl-Guaiacol (1 : 3)	303.15	531.2	-3.84	-2.31	-3.29	-3.84	
[ACh]Cl-Guaiacol (1 : 3)	313.15	54.1	-6.27	-4.83	-5.80	-6.18	
[ACh]Cl-Guaiacol (1 : 3)	313.15	147.8	-5.28	-3.82	-4.78	-5.25	
[ACh]Cl-Guaiacol (1 : 3)	313.15	235	-4.82	-3.35	-4.30	-4.76	
[ACh]Cl-Guaiacol (1 : 3)	313.15	338	-4.45	-2.99	-3.92	-4.40	
[ACh]Cl-Guaiacol (1 : 3)	313.15	434.5	-4.20	-2.74	-3.65	-4.16	
[ACh]Cl-Guaiacol (1 : 3)	313.15	535.3	-3.99	-2.53	-3.42	-3.97	
[ACh]Cl-Guaiacol (1 : 3)	323.15	55.9	-6.32	-5.00	-5.90	-6.27	
[ACh]Cl-Guaiacol (1 : 3)	323.15	143.5	-5.38	-4.06	-4.94	-5.40	
[ACh]Cl-Guaiacol (1 : 3)	323.15	239.4	-4.89	-3.54	-4.41	-4.87	
[ACh]Cl-Guaiacol (1 : 3)	323.15	337.9	-4.56	-3.20	-4.05	-4.52	
[ACh]Cl-Guaiacol (1 : 3)	323.15	438	-4.31	-2.94	-3.77	-4.28	

[ACh]Cl-Guaiacol (1 : 3)	323.15	533	-4.12	-2.74	-3.56	-4.09	
[ACh]Cl-LEV (1 : 3)	303.15	65.7	-5.20	-4.83	-5.89	-5.36	Deng et al. (2016)[15]
[ACh]Cl-LEV (1 : 3)	303.15	120.4	-4.66	-4.23	-5.28	-4.83	
[ACh]Cl-LEV (1 : 3)	303.15	200	-4.21	-3.72	-4.76	-4.31	
[ACh]Cl-LEV (1 : 3)	303.15	283.4	-3.87	-3.37	-4.40	-3.95	
[ACh]Cl-LEV (1 : 3)	303.15	388.3	-3.57	-3.06	-4.06	-3.63	
[ACh]Cl-LEV (1 : 3)	303.15	474.2	-3.39	-2.86	-3.85	-3.42	
[ACh]Cl-LEV (1 : 3)	303.15	542.7	-3.26	-2.72	-3.70	-3.27	
[ACh]Cl-LEV (1 : 3)	313.15	72.3	-5.40	-4.96	-5.93	-5.49	
[ACh]Cl-LEV (1 : 3)	313.15	132.3	-4.88	-4.36	-5.32	-4.94	
[ACh]Cl-LEV (1 : 3)	313.15	215.1	-4.37	-3.87	-4.82	-4.45	
[ACh]Cl-LEV (1 : 3)	313.15	315.4	-4.02	-3.49	-4.42	-4.06	
[ACh]Cl-LEV (1 : 3)	313.15	410.2	-3.79	-3.23	-4.14	-3.79	
[ACh]Cl-LEV (1 : 3)	313.15	511.8	-3.58	-3.00	-3.90	-3.55	
[ACh]Cl-LEV (1 : 3)	313.15	570.1	-3.47	-2.90	-3.79	-3.43	
[ACh]Cl-LEV (1 : 3)	323.15	77.5	-5.66	-5.10	-5.99	-5.62	
[ACh]Cl-LEV (1 : 3)	323.15	129.9	-5.15	-4.58	-5.47	-5.15	
[ACh]Cl-LEV (1 : 3)	323.15	220.1	-4.64	-4.05	-4.92	-4.61	
[ACh]Cl-LEV (1 : 3)	323.15	317.1	-4.28	-3.69	-4.54	-4.24	
[ACh]Cl-LEV (1 : 3)	323.15	414.7	-4.01	-3.42	-4.26	-3.97	
[ACh]Cl-LEV (1 : 3)	323.15	512.3	-3.81	-3.21	-4.03	-3.74	
[ACh]Cl-LEV (1 : 3)	323.15	576.4	-3.69	-3.09	-3.90	-3.61	
[ACh]Cl-LEV (1 : 3)	333.15	83	-5.68	-5.22	-6.04	-5.73	
[ACh]Cl-LEV (1 : 3)	333.15	133.5	-5.24	-4.74	-5.55	-5.29	
[ACh]Cl-LEV (1 : 3)	333.15	223.6	-4.78	-4.23	-5.02	-4.77	
[ACh]Cl-LEV (1 : 3)	333.15	320.6	-4.45	-3.87	-4.65	-4.41	
[ACh]Cl-LEV (1 : 3)	333.15	415.2	-4.20	-3.61	-4.37	-4.14	
[ACh]Cl-LEV (1 : 3)	333.15	513.3	-4.00	-3.40	-4.14	-3.91	

[ACh]Cl-LEV (1 : 3)	333.15	571.6	-3.90	-3.29	-4.02	-3.79	
[TEA]Cl-LEV (1 : 3)	303.15	66.1	-5.43	-4.61	-5.67	-5.51	Deng et al. (2016)[15]
[TEA]Cl-LEV (1 : 3)	303.15	125.6	-4.80	-3.97	-5.02	-4.93	
[TEA]Cl-LEV (1 : 3)	303.15	211.6	-4.29	-3.46	-4.49	-4.38	
[TEA]Cl-LEV (1 : 3)	303.15	302.8	-3.97	-3.11	-4.13	-4.01	
[TEA]Cl-LEV (1 : 3)	303.15	404.1	-3.70	-2.83	-3.83	-3.71	
[TEA]Cl-LEV (1 : 3)	303.15	500.2	-3.49	-2.62	-3.61	-3.47	
[TEA]Cl-LEV (1 : 3)	303.15	561.6	-3.38	-2.51	-3.49	-3.33	
[TEA]Cl-LEV (1 : 3)	313.15	77.6	-5.57	-4.68	-5.65	-5.58	
[TEA]Cl-LEV (1 : 3)	313.15	131.8	-5.04	-4.15	-5.12	-5.09	
[TEA]Cl-LEV (1 : 3)	313.15	219.8	-4.55	-3.65	-4.60	-4.55	
[TEA]Cl-LEV (1 : 3)	313.15	316.9	-4.17	-3.29	-4.22	-4.18	
[TEA]Cl-LEV (1 : 3)	313.15	416.9	-3.90	-3.02	-3.94	-3.89	
[TEA]Cl-LEV (1 : 3)	313.15	516.4	-3.68	-2.81	-3.71	-3.65	
[TEA]Cl-LEV (1 : 3)	313.15	581.3	-3.56	-2.70	-3.59	-3.51	
[TEA]Cl-LEV (1 : 3)	323.15	78	-5.66	-4.89	-5.78	-5.76	
[TEA]Cl-LEV (1 : 3)	323.15	144.1	-5.07	-4.28	-5.16	-5.19	
[TEA]Cl-LEV (1 : 3)	323.15	229.1	-4.61	-3.82	-4.69	-4.70	
[TEA]Cl-LEV (1 : 3)	323.15	325.9	-4.26	-3.47	-4.32	-4.34	
[TEA]Cl-LEV (1 : 3)	323.15	421.6	-4.01	-3.22	-4.05	-4.07	
[TEA]Cl-LEV (1 : 3)	323.15	526	-3.80	-3.00	-3.82	-3.82	
[TEA]Cl-LEV (1 : 3)	323.15	585.4	-3.70	-2.90	-3.70	-3.69	
[TEA]Cl-LEV (1 : 3)	333.15	84	-5.88	-5.01	-5.83	-5.87	
[TEA]Cl-LEV (1 : 3)	333.15	140.7	-5.30	-4.50	-5.31	-5.38	
[TEA]Cl-LEV (1 : 3)	333.15	228.8	-4.78	-4.02	-4.81	-4.88	
[TEA]Cl-LEV (1 : 3)	333.15	331.2	-4.41	-3.65	-4.43	-4.50	
[TEA]Cl-LEV (1 : 3)	333.15	429.2	-4.15	-3.39	-4.15	-4.23	
[TEA]Cl-LEV (1 : 3)	333.15	529.2	-3.94	-3.19	-3.93	-3.99	

[TEA]Cl-LEV (1 : 3)	333.15	583.3	-3.84	-3.09	-3.83	-3.87	
[TEA]Br-LEV (1 : 3)	303.15	68.7	-5.50	-4.52	-5.58	-5.50	Deng et al. (2016)[15]
[TEA]Br-LEV (1 : 3)	303.15	122.4	-4.92	-3.95	-5.00	-4.98	
[TEA]Br-LEV (1 : 3)	303.15	210.3	-4.41	-3.42	-4.45	-4.43	
[TEA]Br-LEV (1 : 3)	303.15	305.1	-4.03	-3.06	-4.08	-4.04	
[TEA]Br-LEV (1 : 3)	303.15	402.4	-3.76	-2.79	-3.79	-3.75	
[TEA]Br-LEV (1 : 3)	303.15	500.5	-3.55	-2.58	-3.57	-3.50	
[TEA]Br-LEV (1 : 3)	303.15	564.4	-3.43	-2.47	-3.44	-3.36	
[TEA]Br-LEV (1 : 3)	313.15	84.2	-5.38	-4.55	-5.52	-5.46	
[TEA]Br-LEV (1 : 3)	313.15	139.1	-4.95	-4.05	-5.01	-4.99	
[TEA]Br-LEV (1 : 3)	313.15	230.1	-4.47	-3.55	-4.50	-4.47	
[TEA]Br-LEV (1 : 3)	313.15	329.1	-4.13	-3.20	-4.14	-4.10	
[TEA]Br-LEV (1 : 3)	313.15	428.9	-3.88	-2.95	-3.86	-3.82	
[TEA]Br-LEV (1 : 3)	313.15	525.9	-3.69	-2.75	-3.65	-3.59	
[TEA]Br-LEV (1 : 3)	313.15	587.7	-3.58	-2.65	-3.53	-3.45	
[TEA]Br-LEV (1 : 3)	323.15	83.1	-5.71	-4.77	-5.66	-5.59	
[TEA]Br-LEV (1 : 3)	323.15	138.5	-5.20	-4.26	-5.15	-5.12	
[TEA]Br-LEV (1 : 3)	323.15	236.2	-4.67	-3.74	-4.60	-4.58	
[TEA]Br-LEV (1 : 3)	323.15	323.8	-4.35	-3.43	-4.28	-4.25	
[TEA]Br-LEV (1 : 3)	323.15	423.9	-4.08	-3.16	-4.00	-3.97	
[TEA]Br-LEV (1 : 3)	323.15	528.3	-3.87	-2.95	-3.77	-3.71	
[TEA]Br-LEV (1 : 3)	323.15	578.8	-3.77	-2.86	-3.67	-3.60	
[TEA]Br-LEV (1 : 3)	333.15	81.8	-5.81	-4.98	-5.80	-5.72	
[TEA]Br-LEV (1 : 3)	333.15	141	-5.28	-4.44	-5.25	-5.22	
[TEA]Br-LEV (1 : 3)	333.15	233.4	-4.79	-3.94	-4.74	-4.71	
[TEA]Br-LEV (1 : 3)	333.15	327.9	-4.47	-3.61	-4.38	-4.36	
[TEA]Br-LEV (1 : 3)	333.15	429.6	-4.19	-3.34	-4.10	-4.07	
[TEA]Br-LEV (1 : 3)	333.15	529.4	-3.99	-3.14	-3.88	-3.83	

[TEA]Br-LEV (1 : 3)	333.15	587.8	-3.90	-3.04	-3.77	-3.70	
[TBA]Cl-LEV (1 : 3)	303.15	63.2	-5.24	-4.51	-5.57	-5.07	Deng et al. (2016)[15]
[TBA]Cl-LEV (1 : 3)	303.15	118.8	-4.62	-3.89	-4.94	-4.54	
[TBA]Cl-LEV (1 : 3)	303.15	200.6	-4.12	-3.38	-4.41	-4.03	
[TBA]Cl-LEV (1 : 3)	303.15	293	-3.73	-3.01	-4.03	-3.65	
[TBA]Cl-LEV (1 : 3)	303.15	389.8	-3.45	-2.73	-3.74	-3.36	
[TBA]Cl-LEV (1 : 3)	303.15	494.3	-3.22	-2.51	-3.50	-3.10	
[TBA]Cl-LEV (1 : 3)	303.15	559.1	-3.09	-2.40	-3.37	-2.96	
[TBA]Cl-LEV (1 : 3)	313.15	69.7	-5.13	-4.64	-5.62	-5.20	
[TBA]Cl-LEV (1 : 3)	313.15	127.3	-4.61	-4.05	-5.01	-4.69	
[TBA]Cl-LEV (1 : 3)	313.15	210.9	-4.16	-3.55	-4.50	-4.19	
[TBA]Cl-LEV (1 : 3)	313.15	310	-3.82	-3.17	-4.11	-3.80	
[TBA]Cl-LEV (1 : 3)	313.15	409.1	-3.55	-2.91	-3.82	-3.52	
[TBA]Cl-LEV (1 : 3)	313.15	509.6	-3.34	-2.70	-3.60	-3.28	
[TBA]Cl-LEV (1 : 3)	313.15	578.6	-3.21	-2.58	-3.46	-3.14	
[TBA]Cl-LEV (1 : 3)	323.15	79.1	-5.38	-4.73	-5.62	-5.29	
[TBA]Cl-LEV (1 : 3)	323.15	131.6	-4.91	-4.22	-5.11	-4.84	
[TBA]Cl-LEV (1 : 3)	323.15	229.6	-4.34	-3.67	-4.54	-4.30	
[TBA]Cl-LEV (1 : 3)	323.15	323.4	-4.00	-3.34	-4.19	-3.96	
[TBA]Cl-LEV (1 : 3)	323.15	424.2	-3.73	-3.07	-3.91	-3.68	
[TBA]Cl-LEV (1 : 3)	323.15	524.4	-3.52	-2.87	-3.69	-3.45	
[TBA]Cl-LEV (1 : 3)	323.15	591.6	-3.40	-2.75	-3.56	-3.30	
[TBA]Cl-LEV (1 : 3)	333.15	85	-5.52	-4.85	-5.67	-5.40	
[TBA]Cl-LEV (1 : 3)	333.15	144.5	-4.98	-4.33	-5.13	-4.93	
[TBA]Cl-LEV (1 : 3)	333.15	236.5	-4.49	-3.84	-4.63	-4.44	
[TBA]Cl-LEV (1 : 3)	333.15	335.5	-4.15	-3.49	-4.27	-4.10	
[TBA]Cl-LEV (1 : 3)	333.15	431.7	-3.89	-3.25	-4.01	-3.84	
[TBA]Cl-LEV (1 : 3)	333.15	533	-3.67	-3.04	-3.79	-3.60	

[TBA]Cl-LEV (1 : 3)	333.15	589.8	-3.56	-2.95	-3.68	-3.48	
[TBA]Br-LEV (1 : 3)	303.15	70.2	-5.19	-4.35	-5.41	-5.23	Deng et al. (2016)[15]
[TBA]Br-LEV (1 : 3)	303.15	122.9	-4.61	-3.80	-4.85	-4.75	
[TBA]Br-LEV (1 : 3)	303.15	206.2	-4.12	-3.29	-4.33	-4.24	
[TBA]Br-LEV (1 : 3)	303.15	301.7	-3.75	-2.93	-3.95	-3.86	
[TBA]Br-LEV (1 : 3)	303.15	401.5	-3.47	-2.66	-3.66	-3.56	
[TBA]Br-LEV (1 : 3)	303.15	500.4	-3.26	-2.45	-3.44	-3.32	
[TBA]Br-LEV (1 : 3)	303.15	568.2	-3.14	-2.34	-3.31	-3.16	
[TBA]Br-LEV (1 : 3)	313.15	82.6	-5.20	-4.41	-5.39	-5.23	
[TBA]Br-LEV (1 : 3)	313.15	198	-4.33	-3.55	-4.51	-4.42	
[TBA]Br-LEV (1 : 3)	313.15	290.6	-3.95	-3.18	-4.12	-4.04	
[TBA]Br-LEV (1 : 3)	313.15	400.4	-3.63	-2.87	-3.79	-3.71	
[TBA]Br-LEV (1 : 3)	313.15	499.9	-3.41	-2.66	-3.57	-3.46	
[TBA]Br-LEV (1 : 3)	313.15	568.4	-3.29	-2.54	-3.43	-3.30	
[TBA]Br-LEV (1 : 3)	323.15	101.1	-5.19	-4.42	-5.31	-5.19	
[TBA]Br-LEV (1 : 3)	323.15	201.4	-4.57	-3.74	-4.62	-4.53	
[TBA]Br-LEV (1 : 3)	323.15	306.9	-4.11	-3.33	-4.19	-4.11	
[TBA]Br-LEV (1 : 3)	323.15	402.3	-3.83	-3.07	-3.91	-3.83	
[TBA]Br-LEV (1 : 3)	323.15	502.9	-3.60	-2.86	-3.68	-3.58	
[TBA]Br-LEV (1 : 3)	323.15	566.6	-3.48	-2.74	-3.55	-3.44	
[TBA]Br-LEV (1 : 3)	333.15	85.3	-5.57	-4.78	-5.60	-5.44	
[TBA]Br-LEV (1 : 3)	333.15	142.3	-5.04	-4.28	-5.09	-4.99	
[TBA]Br-LEV (1 : 3)	333.15	230.7	-4.52	-3.80	-4.59	-4.52	
[TBA]Br-LEV (1 : 3)	333.15	326	-4.18	-3.46	-4.24	-4.17	
[TBA]Br-LEV (1 : 3)	333.15	423.2	-3.91	-3.21	-3.97	-3.90	
[TBA]Br-LEV (1 : 3)	333.15	523.5	-3.70	-3.00	-3.75	-3.65	
[TBA]Br-LEV (1 : 3)	333.15	586.4	-3.59	-2.90	-3.63	-3.51	
[Ch]Cl-Phenol (1 : 3)	313.15	2100	-2.44	-1.34	-1.97	-2.60	Ji et al. (2016)[11]

[Ch]Cl-Phenol (1 : 3)	313.15	3660	-1.99	-1.02	-1.37	-2.13	
[TMA]Cl-Phenol (1 : 3)	313.15	2360	-2.36	-1.19	-1.77	-2.68	Ji et al. (2016)[11]
[TMA]Cl-Phenol (1 : 3)	313.15	4470	-1.97	-0.79	-1.01	-2.20	
[TEA]Cl-Phenol (1 : 3)	313.15	2120	-2.60	-1.28	-1.91	-2.74	Ji et al. (2016)[11]
[TEA]Cl-Phenol (1 : 3)	313.15	3410	-2.17	-0.94	-1.35	-2.40	
[TBA]Br-HexA (1 : 3)	303.15	556	-2.85	-2.31	-3.29	-2.89	Luo et al. (2021)[10]
[TBA]Br-HexA (1 : 3)	303.15	650	-2.70	-2.17	-3.13	-2.74	
[TBA]Br-HexA (1 : 3)	303.15	747	-2.55	-2.04	-2.99	-2.60	
[TBA]Br-HexA (1 : 3)	303.15	910	-2.37	-1.87	-2.79	-2.41	
[TBA]Br-HexA (1 : 3)	303.15	987	-2.29	-1.80	-2.70	-2.34	
[TBA]Br-HexA (1 : 3)	303.15	1090	-2.18	-1.71	-2.60	-2.24	
[TBA]Br-HexA (1 : 3)	303.15	1183	-2.11	-1.64	-2.51	-2.17	
[TBA]Br-HexA (1 : 3)	313.15	466	-3.24	-2.68	-3.58	-3.22	
[TBA]Br-HexA (1 : 3)	313.15	580	-2.99	-2.47	-3.36	-3.02	
[TBA]Br-HexA (1 : 3)	313.15	688	-2.88	-2.31	-3.18	-2.85	
[TBA]Br-HexA (1 : 3)	313.15	838	-2.64	-2.13	-2.98	-2.66	
[TBA]Br-HexA (1 : 3)	313.15	946	-2.53	-2.03	-2.85	-2.54	
[TBA]Br-HexA (1 : 3)	313.15	1044	-2.45	-1.94	-2.75	-2.45	
[TBA]Br-HexA (1 : 3)	313.15	1146	-2.36	-1.86	-2.65	-2.36	
[TBA]Br-HexA (1 : 3)	323.15	502	-3.37	-2.79	-3.61	-3.31	
[TBA]Br-HexA (1 : 3)	323.15	644	-3.14	-2.56	-3.36	-3.07	
[TBA]Br-HexA (1 : 3)	323.15	748	-2.92	-2.42	-3.20	-2.92	
[TBA]Br-HexA (1 : 3)	323.15	861	-2.81	-2.29	-3.05	-2.78	
[TBA]Br-HexA (1 : 3)	323.15	977	-2.67	-2.18	-2.92	-2.66	
[TBA]Br-HexA (1 : 3)	323.15	1083	-2.63	-2.09	-2.81	-2.56	
[TBA]Br-HexA (1 : 3)	323.15	1112	-2.57	-2.06	-2.78	-2.53	
Betain-1,2-propanediol (1 : 3.5)	308.15	185.5	-5.40	-4.08	-5.09	-5.31	He et al. (2022)[16]
Betain-1,2-propanediol (1 : 3.5)	308.15	297.8	-4.89	-3.61	-4.60	-4.81	

Betain-1,2-propanediol (1 : 3.5)	308.15	401.5	-4.55	-3.31	-4.28	-4.53	
Betain-1,2-propanediol (1 : 3.5)	308.15	502.3	-4.34	-3.09	-4.03	-4.34	
Betain-1,2-propanediol (1 : 3.5)	308.15	602	-4.14	-2.91	-3.83	-4.18	
Betain-1,2-propanediol (1 : 3.5)	318.15	195	-5.52	-4.23	-5.17	-5.43	
Betain-1,2-propanediol (1 : 3.5)	318.15	313	-5.01	-3.76	-4.68	-4.94	
Betain-1,2-propanediol (1 : 3.5)	318.15	430	-4.65	-3.44	-4.34	-4.65	
Betain-1,2-propanediol (1 : 3.5)	318.15	527.8	-4.43	-3.24	-4.11	-4.47	
Betain-1,2-propanediol (1 : 3.5)	318.15	633	-4.23	-3.06	-3.91	-4.31	
Betain-1,2-propanediol (1 : 3.5)	328.15	204.5	-5.63	-4.37	-5.25	-5.52	
Betain-1,2-propanediol (1 : 3.5)	328.15	327.8	-5.10	-3.90	-4.75	-5.04	
Betain-1,2-propanediol (1 : 3.5)	328.15	442	-4.73	-3.60	-4.43	-4.76	
Betain-1,2-propanediol (1 : 3.5)	328.15	552.5	-4.52	-3.38	-4.18	-4.57	
Betain-1,2-propanediol (1 : 3.5)	328.15	662.8	-4.31	-3.20	-3.98	-4.40	
Betain-1,2-propanediol (1 : 3.5)	338.15	213.5	-5.71	-4.50	-5.32	-5.61	
Betain-1,2-propanediol (1 : 3.5)	338.15	341.8	-5.19	-4.03	-4.82	-5.14	
Betain-1,2-propanediol (1 : 3.5)	338.15	461.3	-4.82	-3.73	-4.50	-4.87	
Betain-1,2-propanediol (1 : 3.5)	338.15	576.3	-4.60	-3.51	-4.25	-4.67	
Betain-1,2-propanediol (1 : 3.5)	338.15	691.8	-4.38	-3.32	-4.05	-4.50	
Betain-1,2-propanediol (1 : 3.5)	348.15	222.3	-5.81	-4.62	-5.38	-5.71	
Betain-1,2-propanediol (1 : 3.5)	348.15	355.5	-5.26	-4.15	-4.89	-5.24	
Betain-1,2-propanediol (1 : 3.5)	348.15	480	-4.88	-3.85	-4.56	-4.97	
Betain-1,2-propanediol (1 : 3.5)	348.15	599.5	-4.66	-3.63	-4.31	-4.77	
Betain-1,2-propanediol (1 : 3.5)	348.15	719.8	-4.45	-3.45	-4.11	-4.60	
Betain-1,2-propanediol (1 : 4)	308.15	193.8	-5.36	-4.05	-5.07	-5.22	He et al. (2022)[16]
Betain-1,2-propanediol (1 : 4)	308.15	303.3	-4.85	-3.60	-4.60	-4.75	
Betain-1,2-propanediol (1 : 4)	308.15	405.3	-4.52	-3.32	-4.28	-4.48	
Betain-1,2-propanediol (1 : 4)	308.15	504.5	-4.33	-3.10	-4.04	-4.29	
Betain-1,2-propanediol (1 : 4)	308.15	605	-4.12	-2.92	-3.84	-4.14	

Betain-1,2-propanediol (1 : 4)	318.15	202.8	-5.50	-4.20	-5.17	-5.34	
Betain-1,2-propanediol (1 : 4)	318.15	317.8	-4.96	-3.75	-4.70	-4.88	
Betain-1,2-propanediol (1 : 4)	318.15	420	-4.66	-3.48	-4.39	-4.62	
Betain-1,2-propanediol (1 : 4)	318.15	528.5	-4.42	-3.25	-4.14	-4.42	
Betain-1,2-propanediol (1 : 4)	318.15	634	-4.21	-3.07	-3.93	-4.27	
Betain-1,2-propanediol (1 : 4)	328.15	211	-5.57	-4.35	-5.27	-5.44	
Betain-1,2-propanediol (1 : 4)	328.15	331.8	-5.05	-3.89	-4.79	-4.98	
Betain-1,2-propanediol (1 : 4)	328.15	438.5	-4.74	-3.62	-4.48	-4.72	
Betain-1,2-propanediol (1 : 4)	328.15	552	-4.51	-3.39	-4.23	-4.52	
Betain-1,2-propanediol (1 : 4)	328.15	662.5	-4.30	-3.20	-4.02	-4.37	
Betain-1,2-propanediol (1 : 4)	338.15	220	-5.68	-4.48	-5.35	-5.53	
Betain-1,2-propanediol (1 : 4)	338.15	345.5	-5.13	-4.03	-4.87	-5.08	
Betain-1,2-propanediol (1 : 4)	338.15	456.8	-4.83	-3.75	-4.57	-4.83	
Betain-1,2-propanediol (1 : 4)	338.15	574.5	-4.58	-3.52	-4.31	-4.63	
Betain-1,2-propanediol (1 : 4)	338.15	689.8	-4.37	-3.34	-4.10	-4.47	
Betain-1,2-propanediol (1 : 4)	348.15	225.8	-5.78	-4.61	-5.45	-5.65	
Betain-1,2-propanediol (1 : 4)	348.15	359	-5.22	-4.15	-4.95	-5.19	
Betain-1,2-propanediol (1 : 4)	348.15	474.3	-4.89	-3.87	-4.65	-4.94	
Betain-1,2-propanediol (1 : 4)	348.15	596.8	-4.65	-3.64	-4.39	-4.74	
Betain-1,2-propanediol (1 : 4)	348.15	716.8	-4.43	-3.46	-4.17	-4.57	
[Ch]Cl-DEG (1 : 4)	293.15	110.4	-5.55	-4.02	-5.14	-5.61	Li et al. (2014)[7]
[Ch]Cl-DEG (1 : 4)	293.15	210.5	-4.84	-3.38	-4.47	-4.86	
[Ch]Cl-DEG (1 : 4)	293.15	313.8	-4.40	-2.98	-4.05	-4.43	
[Ch]Cl-DEG (1 : 4)	293.15	412.3	-4.11	-2.70	-3.75	-4.15	
[Ch]Cl-DEG (1 : 4)	293.15	508.8	-3.89	-2.49	-3.51	-3.95	
[Ch]Cl-DEG (1 : 4)	303.15	115.8	-5.68	-4.22	-5.28	-5.74	
[Ch]Cl-DEG (1 : 4)	303.15	218.4	-5.02	-3.58	-4.62	-5.01	
[Ch]Cl-DEG (1 : 4)	303.15	318.7	-4.62	-3.20	-4.22	-4.60	

[Ch]Cl-DEG (1 : 4)	303.15	417.2	-4.32	-2.93	-3.92	-4.33	
[Ch]Cl-DEG (1 : 4)	303.15	519	-4.09	-2.71	-3.68	-4.11	
[Ch]Cl-DEG (1 : 4)	313.15	116.5	-5.81	-4.43	-5.45	-5.90	
[Ch]Cl-DEG (1 : 4)	313.15	217.1	-5.13	-3.81	-4.80	-5.19	
[Ch]Cl-DEG (1 : 4)	313.15	313.5	-4.73	-3.44	-4.41	-4.79	
[Ch]Cl-DEG (1 : 4)	313.15	416	-4.43	-3.16	-4.10	-4.51	
[Ch]Cl-DEG (1 : 4)	313.15	518.2	-4.22	-2.94	-3.85	-4.29	
[Ch]Cl-DEG (1 : 4)	323.15	116.7	-6.07	-4.64	-5.60	-6.06	
[Ch]Cl-DEG (1 : 4)	323.15	221.2	-5.40	-4.00	-4.94	-5.34	
[Ch]Cl-DEG (1 : 4)	323.15	327.4	-4.93	-3.60	-4.52	-4.92	
[Ch]Cl-DEG (1 : 4)	323.15	419.2	-4.65	-3.35	-4.25	-4.67	
[Ch]Cl-DEG (1 : 4)	323.15	526.9	-4.41	-3.12	-3.99	-4.44	
[Ch]Cl-FA (1 : 4)	303.15	82.5	-5.74	-4.50	-5.58	-5.83	Lu et al. (2015)[12]
[Ch]Cl-FA (1 : 4)	303.15	212.1	-4.80	-3.56	-4.60	-4.85	
[Ch]Cl-FA (1 : 4)	303.15	319.3	-4.37	-3.14	-4.16	-4.43	
[Ch]Cl-FA (1 : 4)	303.15	412.5	-4.10	-2.89	-3.88	-4.18	
[Ch]Cl-FA (1 : 4)	303.15	519.3	-3.89	-2.65	-3.62	-3.95	
[Ch]Cl-FA (1 : 4)	303.15	581.5	-3.78	-2.54	-3.49	-3.83	
[Ch]Cl-FA (1 : 4)	313.15	70.3	-5.99	-4.89	-5.91	-6.11	
[Ch]Cl-FA (1 : 4)	313.15	192.2	-5.05	-3.88	-4.87	-5.10	
[Ch]Cl-FA (1 : 4)	313.15	295.4	-4.62	-3.45	-4.42	-4.65	
[Ch]Cl-FA (1 : 4)	313.15	403.5	-4.32	-3.13	-4.07	-4.34	
[Ch]Cl-FA (1 : 4)	313.15	502.8	-4.10	-2.91	-3.83	-4.12	
[Ch]Cl-FA (1 : 4)	313.15	568.8	-4.00	-2.78	-3.69	-3.99	
[Ch]Cl-FA (1 : 4)	323.15	65.2	-6.17	-5.17	-6.15	-6.29	
[Ch]Cl-FA (1 : 4)	323.15	188.1	-5.24	-4.11	-5.06	-5.25	
[Ch]Cl-FA (1 : 4)	323.15	296.2	-4.77	-3.65	-4.57	-4.77	
[Ch]Cl-FA (1 : 4)	323.15	399.3	-4.47	-3.35	-4.25	-4.48	

[Ch]Cl-FA (1 : 4)	323.15	494.2	-4.25	-3.13	-4.01	-4.26	
[Ch]Cl-FA (1 : 4)	323.15	565.8	-4.11	-3.00	-3.85	-4.12	
[Ch]Cl-FA (1 : 4)	333.15	86.8	-6.12	-5.07	-6.00	-6.15	
[Ch]Cl-FA (1 : 4)	333.15	220.3	-5.22	-4.14	-5.04	-5.20	
[Ch]Cl-FA (1 : 4)	333.15	326.1	-4.83	-3.74	-4.62	-4.80	
[Ch]Cl-FA (1 : 4)	333.15	426.6	-4.53	-3.47	-4.32	-4.53	
[Ch]Cl-FA (1 : 4)	333.15	529.6	-4.34	-3.25	-4.08	-4.31	
[Ch]Cl-FA (1 : 4)	333.15	585.4	-4.23	-3.15	-3.96	-4.20	
[Ch]Cl-LEV (1 : 4)	303.15	72.5	-5.55	-4.75	-5.82	-5.59	Lu et al. (2015)[12]
[Ch]Cl-LEV (1 : 4)	303.15	201.2	-4.52	-3.73	-4.77	-4.62	
[Ch]Cl-LEV (1 : 4)	303.15	305.3	-4.09	-3.31	-4.32	-4.19	
[Ch]Cl-LEV (1 : 4)	303.15	410.6	-3.79	-3.01	-4.00	-3.89	
[Ch]Cl-LEV (1 : 4)	303.15	508.4	-3.57	-2.79	-3.76	-3.66	
[Ch]Cl-LEV (1 : 4)	303.15	574.9	-3.45	-2.67	-3.62	-3.52	
[Ch]Cl-LEV (1 : 4)	313.15	60	-5.84	-5.16	-6.19	-5.90	
[Ch]Cl-LEV (1 : 4)	313.15	176.9	-4.77	-4.08	-5.08	-4.92	
[Ch]Cl-LEV (1 : 4)	313.15	282.4	-4.31	-3.61	-4.58	-4.45	
[Ch]Cl-LEV (1 : 4)	313.15	380.1	-3.99	-3.31	-4.26	-4.14	
[Ch]Cl-LEV (1 : 4)	313.15	485.1	-3.77	-3.06	-3.99	-3.88	
[Ch]Cl-LEV (1 : 4)	313.15	565.9	-3.60	-2.91	-3.81	-3.71	
[Ch]Cl-LEV (1 : 4)	323.15	83	-5.74	-5.04	-6.02	-5.80	
[Ch]Cl-LEV (1 : 4)	323.15	219.6	-4.78	-4.07	-5.01	-4.86	
[Ch]Cl-LEV (1 : 4)	323.15	321.1	-4.38	-3.68	-4.60	-4.47	
[Ch]Cl-LEV (1 : 4)	323.15	423.5	-4.09	-3.41	-4.30	-4.19	
[Ch]Cl-LEV (1 : 4)	323.15	523.8	-3.89	-3.19	-4.06	-3.96	
[Ch]Cl-LEV (1 : 4)	323.15	584.2	-3.78	-3.08	-3.94	-3.83	
[Ch]Cl-LEV (1 : 4)	333.15	82.6	-6.03	-5.24	-6.17	-5.94	
[Ch]Cl-LEV (1 : 4)	333.15	218.5	-4.93	-4.26	-5.16	-5.01	

[Ch]Cl-LEV (1 : 4)	333.15	326	-4.58	-3.86	-4.73	-4.61	
[Ch]Cl-LEV (1 : 4)	333.15	426.2	-4.28	-3.59	-4.44	-4.33	
[Ch]Cl-LEV (1 : 4)	333.15	528.5	-4.09	-3.37	-4.20	-4.09	
[Ch]Cl-LEV (1 : 4)	333.15	587.4	-3.99	-3.27	-4.08	-3.97	
[Ch]Cl-Phenol (1 : 4)	293.15	108.2	-5.45	-3.87	-4.99	-5.41	Li et al. (2014)[7]
[Ch]Cl-Phenol (1 : 4)	293.15	212.1	-4.79	-3.19	-4.28	-4.69	
[Ch]Cl-Phenol (1 : 4)	293.15	312.6	-4.38	-2.79	-3.86	-4.28	
[Ch]Cl-Phenol (1 : 4)	293.15	401.6	-4.12	-2.53	-3.58	-4.03	
[Ch]Cl-Phenol (1 : 4)	293.15	509.2	-3.85	-2.29	-3.31	-3.79	
[Ch]Cl-Phenol (1 : 4)	303.15	115	-5.66	-4.06	-5.12	-5.53	
[Ch]Cl-Phenol (1 : 4)	303.15	220	-5.01	-3.40	-4.44	-4.83	
[Ch]Cl-Phenol (1 : 4)	303.15	323.9	-4.59	-3.01	-4.02	-4.43	
[Ch]Cl-Phenol (1 : 4)	303.15	420.9	-4.30	-2.74	-3.73	-4.16	
[Ch]Cl-Phenol (1 : 4)	303.15	523.3	-4.06	-2.52	-3.48	-3.94	
[Ch]Cl-Phenol (1 : 4)	313.15	117.1	-5.74	-4.27	-5.28	-5.68	
[Ch]Cl-Phenol (1 : 4)	313.15	214.2	-5.08	-3.66	-4.65	-5.03	
[Ch]Cl-Phenol (1 : 4)	313.15	320.4	-4.65	-3.25	-4.22	-4.61	
[Ch]Cl-Phenol (1 : 4)	313.15	415.8	-4.38	-2.99	-3.93	-4.35	
[Ch]Cl-Phenol (1 : 4)	313.15	504.5	-4.15	-2.79	-3.71	-4.15	
[Ch]Cl-Phenol (1 : 4)	323.15	118.2	-5.91	-4.47	-5.44	-5.83	
[Ch]Cl-Phenol (1 : 4)	323.15	221.4	-5.28	-3.84	-4.78	-5.16	
[Ch]Cl-Phenol (1 : 4)	323.15	325.1	-4.84	-3.45	-4.37	-4.76	
[Ch]Cl-Phenol (1 : 4)	323.15	418.4	-4.52	-3.20	-4.09	-4.50	
[Ch]Cl-Phenol (1 : 4)	323.15	529.1	-4.33	-2.96	-3.82	-4.26	
[Ch]Cl-TEG (1 : 4)	293.15	119	-5.12	-3.42	-4.54	-5.28	Li et al. (2014)[7]
[Ch]Cl-TEG (1 : 4)	293.15	215	-4.51	-2.83	-3.92	-4.59	
[Ch]Cl-TEG (1 : 4)	293.15	322.1	-4.07	-2.42	-3.49	-4.14	
[Ch]Cl-TEG (1 : 4)	293.15	404.3	-3.82	-2.19	-3.24	-3.89	

[Ch]Cl-TEG (1 : 4)	293.15	513.5	-3.58	-1.95	-2.97	-3.63	
[Ch]Cl-TEG (1 : 4)	303.15	109.3	-5.32	-3.75	-4.81	-5.53	
[Ch]Cl-TEG (1 : 4)	303.15	211.5	-4.61	-3.09	-4.13	-4.78	
[Ch]Cl-TEG (1 : 4)	303.15	310.4	-4.21	-2.70	-3.72	-4.35	
[Ch]Cl-TEG (1 : 4)	303.15	410.5	-3.91	-2.42	-3.41	-4.05	
[Ch]Cl-TEG (1 : 4)	303.15	513	-3.70	-2.19	-3.16	-3.80	
[Ch]Cl-TEG (1 : 4)	313.15	119.6	-5.47	-3.88	-4.89	-5.58	
[Ch]Cl-TEG (1 : 4)	313.15	219.3	-4.82	-3.27	-4.26	-4.89	
[Ch]Cl-TEG (1 : 4)	313.15	315.2	-4.39	-2.91	-3.88	-4.49	
[Ch]Cl-TEG (1 : 4)	313.15	415	-4.09	-2.63	-3.58	-4.19	
[Ch]Cl-TEG (1 : 4)	313.15	519	-3.90	-2.41	-3.33	-3.94	
[Ch]Cl-TEG (1 : 4)	323.15	118.8	-5.71	-4.10	-5.07	-5.72	
[Ch]Cl-TEG (1 : 4)	323.15	221.4	-5.02	-3.48	-4.42	-5.02	
[Ch]Cl-TEG (1 : 4)	323.15	318.6	-4.65	-3.11	-4.03	-4.62	
[Ch]Cl-TEG (1 : 4)	323.15	420.2	-4.31	-2.83	-3.73	-4.32	
[Ch]Cl-TEG (1 : 4)	323.15	520.3	-4.09	-2.62	-3.49	-4.07	
[MTPP]Br-1,2-PRO (1 : 4)	298.15	220	-5.84	-3.47	-4.54	-5.14	Sarmad et al. (2017)[6]
[MTPP]Br-1,2-PRO (1 : 4)	298.15	528	-4.39	-2.64	-3.63	-4.21	
[MTPP]Br-1,2-PRO (1 : 4)	298.15	861	-3.53	-2.19	-3.10	-3.61	
[MTPP]Br-1,2-PRO (1 : 4)	298.15	1120	-3.28	-1.96	-2.81	-3.28	
[MTPP]Br-1,2-propanediol (1 : 4)	298.15	1547	-3.03	-1.69	-2.43	-2.90	
[MTPP]Br-1,2-propanediol (1 : 4)	298.15	1834	-2.80	-1.54	-2.22	-2.73	
[MTPP]Br-1,2-propanediol (1 : 4)	298.15	2026	-2.69	-1.27	-1.89	-2.64	
[MTPP]Br-AC (1 : 4)	298.15	173	-4.75	-3.81	-4.89	-4.55	Sarmad et al. (2017)[6]
[MTPP]Br-AC (1 : 4)	298.15	380	-3.70	-3.05	-4.08	-3.67	
[MTPP]Br-AC (1 : 4)	298.15	652	-3.11	-2.55	-3.51	-3.05	
[MTPP]Br-AC (1 : 4)	298.15	938	-2.55	-2.22	-3.11	-2.57	

[MTPP]Br-AC (1 : 4)	298.15	1134	-2.23	-2.05	-2.90	-2.32	
[MTPP]Br-AC (1 : 4)	298.15	1524	-1.75	-1.80	-2.55	-1.94	
[MTPP]Br-AC (1 : 4)	298.15	1843	-1.55	-1.64	-2.31	-1.71	
[MTPP]Br-AC (1 : 4)	298.15	2014	-1.33	-1.57	-2.19	-1.62	
[TMA]Cl-AC (1 : 4)	298.15	294	-4.79	-3.68	-4.73	-4.85	Sarmad et al. (2017)[6]
[TMA]Cl-AC (1 : 4)	298.15	519	-3.90	-3.11	-4.11	-4.29	
[TMA]Cl-AC (1 : 4)	298.15	731	-3.82	-2.77	-3.71	-3.98	
[TMA]Cl-AC (1 : 4)	298.15	1015	-3.65	-2.44	-3.31	-3.68	
[TMA]Cl-AC (1 : 4)	298.15	1312	-3.47	-2.17	-2.97	-3.45	
[TMA]Cl-AC (1 : 4)	298.15	1741	-3.12	-1.88	-2.57	-3.23	
[TPA]Cl-EA (1 : 4)	298.15	481	-3.49	-2.44	-3.44	-3.19	Sarmad et al. (2017)[6]
[TPA]Cl-EA (1 : 4)	298.15	784	-2.88	-2.00	-2.93	-2.72	
[TPA]Cl-EA (1 : 4)	298.15	1057	-2.52	-1.74	-2.60	-2.44	
[TPA]Cl-EA (1 : 4)	298.15	1317	-2.34	-1.56	-2.35	-2.24	
[TPA]Cl-EA (1 : 4)	298.15	1700	-2.23	-1.22	-1.93	-2.04	
[TPA]Cl-EA (1 : 4)	298.15	2009	-2.14	-1.08	-1.71	-1.92	
[MTPP]Br-GLY (1 : 4)	298.15	161	-6.64	-3.55	-4.63	-6.38	Sarmad et al. (2017)[6]
[MTPP]Br-GLY (1 : 4)	298.15	443	-5.35	-2.59	-3.60	-5.25	
[MTPP]Br-GLY (1 : 4)	298.15	875	-4.14	-1.98	-2.89	-4.36	
[MTPP]Br-GLY (1 : 4)	298.15	1225	-3.55	-1.70	-2.52	-3.86	
[MTPP]Br-GLY (1 : 4)	298.15	1696	-3.32	-1.26	-1.97	-3.41	
[MTPP]Br-GLY (1 : 4)	298.15	2026	-3.21	-1.10	-1.73	-3.20	
[Ch]Cl-1,4-butanediol (1 : 4)	293.15	109.5	-5.78	-4.17	-5.29	-5.73	Chen et al. (2014)[13]
[Ch]Cl-1,4-butanediol (1 : 4)	293.15	214.5	-5.08	-3.49	-4.58	-4.93	
[Ch]Cl-1,4-butanediol (1 : 4)	293.15	316.4	-4.68	-3.10	-4.17	-4.50	
[Ch]Cl-1,4-butanediol (1 : 4)	293.15	411.6	-4.40	-2.83	-3.88	-4.23	

[Ch]Cl-1,4-butanediol (1 : 4)	293.15	513.4	-4.17	-2.61	-3.62	-4.02	
[Ch]Cl-1,4-butanediol (1 : 4)	303.15	105.8	-5.91	-4.44	-5.50	-5.96	
[Ch]Cl-1,4-butanediol (1 : 4)	303.15	205.8	-5.26	-3.77	-4.81	-5.18	
[Ch]Cl-1,4-butanediol (1 : 4)	303.15	304.7	-4.80	-3.37	-4.39	-4.74	
[Ch]Cl-1,4-butanediol (1 : 4)	303.15	403.3	-4.51	-3.09	-4.08	-4.46	
[Ch]Cl-1,4-butanediol (1 : 4)	303.15	503.6	-4.31	-2.86	-3.83	-4.24	
[Ch]Cl-1,4-butanediol (1 : 4)	313.15	119.5	-5.95	-4.53	-5.54	-6.01	
[Ch]Cl-1,4-butanediol (1 : 4)	313.15	223.2	-5.32	-3.90	-4.89	-5.27	
[Ch]Cl-1,4-butanediol (1 : 4)	313.15	312.5	-4.95	-3.56	-4.53	-4.90	
[Ch]Cl-1,4-butanediol (1 : 4)	313.15	410	-4.65	-3.29	-4.23	-4.63	
[Ch]Cl-1,4-butanediol (1 : 4)	313.15	507.2	-4.43	-3.07	-3.99	-4.42	
[Ch]Cl-1,4-butanediol (1 : 4)	323.15	123	-6.12	-4.70	-5.66	-6.15	
[Ch]Cl-1,4-butanediol (1 : 4)	323.15	221.6	-5.55	-4.11	-5.05	-5.45	
[Ch]Cl-1,4-butanediol (1 : 4)	323.15	332.6	-5.08	-3.70	-4.61	-5.01	
[Ch]Cl-1,4-butanediol (1 : 4)	323.15	425.3	-4.82	-3.45	-4.34	-4.77	
[Ch]Cl-1,4-butanediol (1 : 4)	323.15	519	-4.59	-3.25	-4.12	-4.57	
[Ch]Cl-2,3-butanediol (1 : 4)	293.15	107.1	-5.57	-4.22	-5.34	-5.53	Chen et al. (2014)[13]
[Ch]Cl-2,3-butanediol (1 : 4)	293.15	207.2	-4.95	-3.55	-4.65	-4.79	
[Ch]Cl-2,3-butanediol (1 : 4)	293.15	309.7	-4.52	-3.15	-4.22	-4.36	
[Ch]Cl-2,3-butanediol (1 : 4)	293.15	403	-4.21	-2.88	-3.93	-4.09	
[Ch]Cl-2,3-butanediol (1 : 4)	293.15	508.5	-3.97	-2.64	-3.66	-3.87	
[Ch]Cl-2,3-butanediol (1 : 4)	303.15	117.6	-5.66	-4.35	-5.41	-5.62	
[Ch]Cl-2,3-butanediol (1 : 4)	303.15	218.7	-4.99	-3.72	-4.76	-4.93	
[Ch]Cl-2,3-butanediol (1 : 4)	303.15	320.1	-4.59	-3.34	-4.35	-4.52	
[Ch]Cl-2,3-butanediol (1 : 4)	303.15	409.2	-4.31	-3.09	-4.08	-4.28	
[Ch]Cl-2,3-butanediol (1 : 4)	303.15	511.2	-4.09	-2.86	-3.83	-4.05	
[Ch]Cl-2,3-butanediol (1 : 4)	313.15	110.9	-5.81	-4.61	-5.63	-5.86	
[Ch]Cl-2,3-butanediol (1 : 4)	313.15	217.2	-5.10	-3.93	-4.92	-5.11	

[Ch]Cl-2,3-butanediol (1 : 4)	313.15	318	-4.74	-3.55	-4.52	-4.71	
[Ch]Cl-2,3-butanediol (1 : 4)	313.15	414.9	-4.44	-3.28	-4.22	-4.44	
[Ch]Cl-2,3-butanediol (1 : 4)	313.15	511	-4.23	-3.07	-3.99	-4.23	
[Ch]Cl-2,3-butanediol (1 : 4)	323.15	116.4	-5.81	-4.75	-5.72	-5.97	
[Ch]Cl-2,3-butanediol (1 : 4)	323.15	214.1	-5.26	-4.14	-5.08	-5.29	
[Ch]Cl-2,3-butanediol (1 : 4)	323.15	315.9	-4.85	-3.75	-4.67	-4.88	
[Ch]Cl-2,3-butanediol (1 : 4)	323.15	425.7	-4.55	-3.45	-4.34	-4.58	
[Ch]Cl-2,3-butanediol (1 : 4)	323.15	512.5	-4.34	-3.26	-4.13	-4.39	
[Ch]Cl-1,2-propanediol (1 : 4)	293.15	104.4	-5.78	-4.54	-5.66	-5.98	Chen et al. (2014)[13]
[Ch]Cl-1,2-propanediol (1 : 4)	293.15	209.6	-5.05	-3.84	-4.93	-5.17	
[Ch]Cl-1,2-propanediol (1 : 4)	293.15	307.6	-4.67	-3.45	-4.52	-4.76	
[Ch]Cl-1,2-propanediol (1 : 4)	293.15	401.1	-4.37	-3.18	-4.23	-4.50	
[Ch]Cl-1,2-propanediol (1 : 4)	293.15	501.5	-4.10	-2.96	-3.98	-4.30	
[Ch]Cl-1,2-propanediol (1 : 4)	303.15	117.2	-5.91	-4.64	-5.71	-6.03	
[Ch]Cl-1,2-propanediol (1 : 4)	303.15	220.1	-5.30	-4.01	-5.05	-5.30	
[Ch]Cl-1,2-propanediol (1 : 4)	303.15	321.7	-4.89	-3.63	-4.64	-4.90	
[Ch]Cl-1,2-propanediol (1 : 4)	303.15	415.6	-4.60	-3.37	-4.36	-4.65	
[Ch]Cl-1,2-propanediol (1 : 4)	303.15	517.5	-4.35	-3.15	-4.11	-4.45	
[Ch]Cl-1,2-propanediol (1 : 4)	313.15	121.6	-6.17	-4.81	-5.82	-6.15	
[Ch]Cl-1,2-propanediol (1 : 4)	313.15	225.2	-5.45	-4.19	-5.17	-5.44	
[Ch]Cl-1,2-propanediol (1 : 4)	313.15	325.1	-5.12	-3.82	-4.78	-5.06	
[Ch]Cl-1,2-propanediol (1 : 4)	313.15	421.4	-4.82	-3.56	-4.49	-4.81	
[Ch]Cl-1,2-propanediol (1 : 4)	313.15	525.6	-4.55	-3.33	-4.25	-4.60	
[Ch]Cl-1,2-propanediol (1 : 4)	323.15	122.5	-6.21	-4.98	-5.95	-6.29	
[Ch]Cl-1,2-propanediol (1 : 4)	323.15	226.6	-5.63	-4.36	-5.31	-5.59	
[Ch]Cl-1,2-propanediol (1 : 4)	323.15	326.5	-5.26	-4.00	-4.91	-5.20	
[Ch]Cl-1,2-propanediol (1 : 4)	323.15	425	-4.95	-3.73	-4.62	-4.95	
[Ch]Cl-1,2-propanediol (1 : 4)	323.15	519.8	-4.74	-3.53	-4.40	-4.76	

Betain-DEG (1 : 4)	308.15	200.5	-4.85	-3.65	-4.67	-4.82	He et al. (2022)[16]
Betain-DEG (1 : 4)	308.15	343.3	-4.28	-3.12	-4.10	-4.25	
Betain-DEG (1 : 4)	308.15	439.8	-4.01	-2.87	-3.83	-4.01	
Betain-DEG (1 : 4)	308.15	525	-3.83	-2.70	-3.64	-3.84	
Betain-DEG (1 : 4)	308.15	632.5	-3.63	-2.52	-3.43	-3.67	
Betain-DEG (1 : 4)	318.15	223.3	-4.93	-3.76	-4.72	-4.87	
Betain-DEG (1 : 4)	318.15	362.8	-4.41	-3.28	-4.21	-4.37	
Betain-DEG (1 : 4)	318.15	464.5	-4.13	-3.03	-3.94	-4.13	
Betain-DEG (1 : 4)	318.15	554.3	-3.94	-2.86	-3.74	-3.96	
Betain-DEG (1 : 4)	318.15	668.5	-3.75	-2.67	-3.53	-3.78	
Betain-DEG (1 : 4)	328.15	234	-5.02	-3.91	-4.83	-4.96	
Betain-DEG (1 : 4)	328.15	381.3	-4.52	-3.43	-4.31	-4.46	
Betain-DEG (1 : 4)	328.15	488.5	-4.24	-3.18	-4.04	-4.22	
Betain-DEG (1 : 4)	328.15	583	-4.05	-3.01	-3.84	-4.05	
Betain-DEG (1 : 4)	328.15	703.3	-3.85	-2.82	-3.62	-3.87	
Betain-DEG (1 : 4)	338.15	245.5	-5.15	-4.05	-4.92	-5.05	
Betain-DEG (1 : 4)	338.15	399	-4.62	-3.57	-4.40	-4.56	
Betain-DEG (1 : 4)	338.15	511.5	-4.34	-3.32	-4.13	-4.32	
Betain-DEG (1 : 4)	338.15	610.5	-4.14	-3.15	-3.93	-4.15	
Betain-DEG (1 : 4)	338.15	736.8	-3.95	-2.96	-3.71	-3.96	
Betain-DEG (1 : 4)	348.15	256.3	-5.26	-4.18	-5.01	-5.15	
Betain-DEG (1 : 4)	348.15	416.3	-4.71	-3.70	-4.49	-4.66	
Betain-DEG (1 : 4)	348.15	533.8	-4.43	-3.45	-4.21	-4.42	
Betain-DEG (1 : 4)	348.15	637.3	-4.23	-3.28	-4.01	-4.24	
Betain-DEG (1 : 4)	348.15	769.3	-4.04	-3.09	-3.79	-4.05	
[Ch]Cl-1,2-butanediol (1 : 4)	303.15	371.3	-4.43	-3.24	-4.24	-4.22	Haghbakhsh et al. (2022)[17]
[Ch]Cl-1,2-butanediol (1 : 4)	303.15	797.5	-3.66	-2.46	-3.36	-3.51	

[Ch]Cl-1,2-butanediol (1 : 4)	303.15	1225.5	-3.23	-2.01	-2.81	-3.12	
[Ch]Cl-1,2-butanediol (1 : 4)	303.15	1646.3	-2.88	-1.70	-2.39	-2.89	
[Ch]Cl-1,2-butanediol (1 : 4)	303.15	2076.8	-2.67	-1.44	-2.03	-2.73	
[Ch]Cl-1,2-butanediol (1 : 4)	303.15	2507.8	-2.49	-1.23	-1.71	-2.62	
[Ch]Cl-1,2-butanediol (1 : 4)	303.15	2956.8	-2.33	-1.16	-1.53	-2.51	
[Ch]Cl-1,2-butanediol (1 : 4)	313.15	388.3	-4.56	-3.40	-4.35	-4.36	
[Ch]Cl-1,2-butanediol (1 : 4)	313.15	835.8	-3.79	-2.62	-3.46	-3.64	
[Ch]Cl-1,2-butanediol (1 : 4)	313.15	1285.5	-3.35	-2.17	-2.90	-3.25	
[Ch]Cl-1,2-butanediol (1 : 4)	313.15	1729.8	-3.00	-1.86	-2.48	-3.01	
[Ch]Cl-1,2-butanediol (1 : 4)	313.15	2186	-2.79	-1.61	-2.12	-2.86	
[Ch]Cl-1,2-butanediol (1 : 4)	313.15	2644.3	-2.61	-1.39	-1.80	-2.74	
[Ch]Cl-1,2-butanediol (1 : 4)	313.15	3125	-2.45	-1.26	-1.54	-2.63	
[Ch]Cl-1,2-butanediol (1 : 4)	323.15	404.5	-4.66	-3.55	-4.44	-4.47	
[Ch]Cl-1,2-butanediol (1 : 4)	323.15	871.5	-3.89	-2.77	-3.55	-3.75	
[Ch]Cl-1,2-butanediol (1 : 4)	323.15	1343.3	-3.46	-2.32	-2.99	-3.35	
[Ch]Cl-1,2-butanediol (1 : 4)	323.15	1808.8	-3.09	-2.01	-2.57	-3.12	
[Ch]Cl-1,2-butanediol (1 : 4)	323.15	2289	-2.87	-1.76	-2.20	-2.96	
[Ch]Cl-1,2-butanediol (1 : 4)	323.15	2775	-2.70	-1.55	-1.87	-2.84	
[Ch]Cl-1,2-butanediol (1 : 4)	323.15	3285.3	-2.54	-1.36	-1.56	-2.72	
[Ch]Cl-1,2-butanediol (1 : 4)	333.15	420.5	-4.76	-3.68	-4.53	-4.58	
[Ch]Cl-1,2-butanediol (1 : 4)	333.15	907	-3.99	-2.90	-3.63	-3.84	
[Ch]Cl-1,2-butanediol (1 : 4)	333.15	1399.8	-3.56	-2.46	-3.07	-3.44	
[Ch]Cl-1,2-butanediol (1 : 4)	333.15	1886.3	-3.17	-2.15	-2.64	-3.21	
[Ch]Cl-1,2-butanediol (1 : 4)	333.15	2391.8	-2.96	-1.90	-2.27	-3.05	
[Ch]Cl-1,2-butanediol (1 : 4)	333.15	2903.8	-2.79	-1.69	-1.93	-2.92	
[Ch]Cl-1,2-butanediol (1 : 4)	333.15	3443.3	-2.62	-1.50	-1.62	-2.80	
[Ch]Cl-DEG (1 : 4)	303.15	524.2	-4.08	-2.70	-3.67	-4.10	Haider et al. (2018)[9]
[Ch]Cl-DEG (1 : 4)	303.15	617.3	-3.92	-2.54	-3.48	-3.94	

[Ch]Cl-DEG (1 : 4)	303.15	726.5	-3.75	-2.37	-3.29	-3.77	
[Ch]Cl-DEG (1 : 4)	303.15	846.3	-3.60	-2.22	-3.11	-3.61	
[Ch]Cl-DEG (1 : 4)	303.15	924.3	-3.51	-2.13	-3.00	-3.52	
[Ch]Cl-DEG (1 : 4)	303.15	1032.2	-3.40	-2.02	-2.86	-3.41	
[Ch]Cl-DEG (1 : 4)	303.15	1119.7	-3.32	-1.93	-2.75	-3.32	
[TBA]Br-EG (1 : 4)	303.15	542.8	-3.97	-2.89	-3.85	-4.04	Haider et al. (2018)[9]
[TBA]Br-EG (1 : 4)	303.15	669.5	-3.71	-2.70	-3.63	-3.84	
[TBA]Br-EG (1 : 4)	303.15	802.1	-3.53	-2.54	-3.43	-3.66	
[TBA]Br-EG (1 : 4)	303.15	832.5	-3.48	-2.50	-3.39	-3.62	
[TBA]Br-EG (1 : 4)	303.15	1075.9	-3.23	-2.28	-3.11	-3.37	
[TBA]Br-EG (1 : 4)	303.15	1374.2	-3.00	-2.06	-2.82	-3.14	
[TBA]Br-DEG (1 : 4)	303.15	590	-3.06	-2.29	-3.24	-3.45	Haider et al. (2018)[9]
[TBA]Br-DEG (1 : 4)	303.15	639.9	-2.99	-2.22	-3.15	-3.37	
[TBA]Br-DEG (1 : 4)	303.15	756.9	-2.82	-2.07	-2.98	-3.19	
[TBA]Br-DEG (1 : 4)	303.15	908.8	-2.54	-1.91	-2.78	-3.00	
[TBA]Br-DEG (1 : 4)	303.15	1047.7	-2.41	-1.79	-2.63	-2.85	
[TBA]Br-MDA (1 : 4)	303.15	502.5	-2.21	-2.20	-3.17	-2.40	Haider et al. (2018)[9]
[TBA]Br-MDA (1 : 4)	303.15	664.3	-1.96	-1.95	-2.88	-2.09	
[TBA]Br-MDA (1 : 4)	303.15	711.9	-1.78	-1.89	-2.81	-2.01	
[TBA]Br-MDA (1 : 4)	303.15	834	-1.68	-1.76	-2.65	-1.82	
[TBA]Br-MDA (1 : 4)	303.15	904	-1.60	-1.69	-2.57	-1.73	
[TBA]Br-MDA (1 : 4)	303.15	1021	-1.49	-1.59	-2.44	-1.58	
[Ch]Cl-Guaiacol (1 : 4)	293.15	52.1	-6.12	-4.36	-5.49	-6.01	Liu et al. (2017)[14]
[Ch]Cl-Guaiacol (1 : 4)	293.15	143.2	-5.12	-3.34	-4.45	-5.08	
[Ch]Cl-Guaiacol (1 : 4)	293.15	231.9	-4.64	-2.86	-3.95	-4.57	
[Ch]Cl-Guaiacol (1 : 4)	293.15	326.5	-4.30	-2.51	-3.58	-4.23	

[Ch]Cl-Guaiacol (1 : 4)	293.15	430	-4.02	-2.23	-3.27	-3.97	
[Ch]Cl-Guaiacol (1 : 4)	293.15	526	-3.81	-2.02	-3.04	-3.79	
[Ch]Cl-Guaiacol (1 : 4)	303.15	100.3	-5.66	-3.95	-5.01	-5.60	
[Ch]Cl-Guaiacol (1 : 4)	303.15	151.3	-5.22	-3.53	-4.59	-5.17	
[Ch]Cl-Guaiacol (1 : 4)	303.15	264.2	-4.67	-2.97	-4.00	-4.59	
[Ch]Cl-Guaiacol (1 : 4)	303.15	341.7	-4.41	-2.71	-3.72	-4.34	
[Ch]Cl-Guaiacol (1 : 4)	303.15	437.4	-4.16	-2.46	-3.45	-4.11	
[Ch]Cl-Guaiacol (1 : 4)	303.15	545.9	-3.94	-2.24	-3.20	-3.90	
[Ch]Cl-Guaiacol (1 : 4)	313.15	53.4	-6.57	-4.80	-5.83	-6.28	
[Ch]Cl-Guaiacol (1 : 4)	313.15	142.5	-5.43	-3.82	-4.83	-5.39	
[Ch]Cl-Guaiacol (1 : 4)	313.15	235.9	-4.93	-3.31	-4.30	-4.86	
[Ch]Cl-Guaiacol (1 : 4)	313.15	335.5	-4.58	-2.96	-3.92	-4.51	
[Ch]Cl-Guaiacol (1 : 4)	313.15	431.8	-4.33	-2.70	-3.64	-4.28	
[Ch]Cl-Guaiacol (1 : 4)	313.15	542.9	-4.10	-2.47	-3.38	-4.06	
[Ch]Cl-Guaiacol (1 : 4)	323.15	54.7	-6.57	-4.99	-5.97	-6.40	
[Ch]Cl-Guaiacol (1 : 4)	323.15	143.6	-5.57	-4.02	-4.98	-5.52	
[Ch]Cl-Guaiacol (1 : 4)	323.15	238.5	-5.07	-3.51	-4.45	-4.99	
[Ch]Cl-Guaiacol (1 : 4)	323.15	336.7	-4.71	-3.17	-4.08	-4.66	
[Ch]Cl-Guaiacol (1 : 4)	323.15	435.2	-4.46	-2.91	-3.80	-4.41	
[Ch]Cl-Guaiacol (1 : 4)	323.15	535.3	-4.26	-2.70	-3.56	-4.22	
[DEA]Cl-Guaiacol (1 : 4)	293.15	49.6	-5.99	-4.43	-5.56	-5.95	Liu et al. (2017)[14]
[DEA]Cl-Guaiacol (1 : 4)	293.15	134.6	-5.01	-3.42	-4.54	-5.05	
[DEA]Cl-Guaiacol (1 : 4)	293.15	224.4	-4.50	-2.91	-4.00	-4.50	
[DEA]Cl-Guaiacol (1 : 4)	293.15	323.1	-4.14	-2.54	-3.60	-4.11	
[DEA]Cl-Guaiacol (1 : 4)	293.15	411.3	-3.89	-2.29	-3.34	-3.84	
[DEA]Cl-Guaiacol (1 : 4)	293.15	516.1	-3.65	-2.06	-3.08	-3.57	
[DEA]Cl-Guaiacol (1 : 4)	303.15	61.7	-5.88	-4.46	-5.53	-5.92	
[DEA]Cl-Guaiacol (1 : 4)	303.15	142.6	-5.07	-3.61	-4.67	-5.13	

[DEA]Cl-Guaiacol (1 : 4)	303.15	227.5	-4.61	-3.14	-4.18	-4.63	
[DEA]Cl-Guaiacol (1 : 4)	303.15	345.8	-4.19	-2.72	-3.73	-4.18	
[DEA]Cl-Guaiacol (1 : 4)	303.15	425.4	-3.98	-2.51	-3.50	-3.96	
[DEA]Cl-Guaiacol (1 : 4)	303.15	524.8	-3.78	-2.29	-3.26	-3.71	
[DEA]Cl-Guaiacol (1 : 4)	313.15	54.2	-6.21	-4.81	-5.84	-6.15	
[DEA]Cl-Guaiacol (1 : 4)	313.15	141.1	-5.24	-3.85	-4.86	-5.29	
[DEA]Cl-Guaiacol (1 : 4)	313.15	242.2	-4.71	-3.31	-4.29	-4.71	
[DEA]Cl-Guaiacol (1 : 4)	313.15	346.8	-4.34	-2.95	-3.90	-4.33	
[DEA]Cl-Guaiacol (1 : 4)	313.15	431.8	-4.12	-2.72	-3.66	-4.09	
[DEA]Cl-Guaiacol (1 : 4)	313.15	529.2	-3.92	-2.52	-3.43	-3.85	
[DEA]Cl-Guaiacol (1 : 4)	323.15	58.9	-6.27	-4.94	-5.92	-6.22	
[DEA]Cl-Guaiacol (1 : 4)	323.15	148.4	-5.30	-4.01	-4.97	-5.37	
[DEA]Cl-Guaiacol (1 : 4)	323.15	230.1	-4.88	-3.57	-4.51	-4.90	
[DEA]Cl-Guaiacol (1 : 4)	323.15	337.7	-4.48	-3.18	-4.10	-4.50	
[DEA]Cl-Guaiacol (1 : 4)	323.15	430.4	-4.24	-2.94	-3.83	-4.24	
[DEA]Cl-Guaiacol (1 : 4)	323.15	526.8	-4.05	-2.73	-3.60	-4.00	
[ACh]Cl-Guaiacol (1 : 4)	293.15	55.1	-5.95	-4.28	-5.41	-5.92	Liu et al. (2017)[14]
[ACh]Cl-Guaiacol (1 : 4)	293.15	138.4	-4.99	-3.36	-4.47	-5.06	
[ACh]Cl-Guaiacol (1 : 4)	293.15	227.6	-4.50	-2.86	-3.95	-4.52	
[ACh]Cl-Guaiacol (1 : 4)	293.15	326.4	-4.15	-2.49	-3.56	-4.17	
[ACh]Cl-Guaiacol (1 : 4)	293.15	422.1	-3.89	-2.23	-3.28	-3.93	
[ACh]Cl-Guaiacol (1 : 4)	293.15	524.9	-3.68	-2.01	-3.03	-3.74	
[ACh]Cl-Guaiacol (1 : 4)	303.15	54.8	-6.12	-4.53	-5.61	-6.06	
[ACh]Cl-Guaiacol (1 : 4)	303.15	140.6	-5.19	-3.59	-4.65	-5.18	
[ACh]Cl-Guaiacol (1 : 4)	303.15	263.7	-4.53	-2.96	-3.98	-4.52	
[ACh]Cl-Guaiacol (1 : 4)	303.15	338.6	-4.28	-2.70	-3.71	-4.28	
[ACh]Cl-Guaiacol (1 : 4)	303.15	431.8	-4.03	-2.46	-3.45	-4.06	
[ACh]Cl-Guaiacol (1 : 4)	303.15	558.6	-3.78	-2.20	-3.15	-3.83	

[ACh]Cl-Guaiacol (1 : 4)	313.15	55.5	-6.12	-4.74	-5.77	-6.19	
[ACh]Cl-Guaiacol (1 : 4)	313.15	140.8	-5.24	-3.81	-4.82	-5.33	
[ACh]Cl-Guaiacol (1 : 4)	313.15	235.8	-4.73	-3.29	-4.28	-4.78	
[ACh]Cl-Guaiacol (1 : 4)	313.15	330.2	-4.41	-2.96	-3.92	-4.45	
[ACh]Cl-Guaiacol (1 : 4)	313.15	438.8	-4.13	-2.67	-3.60	-4.19	
[ACh]Cl-Guaiacol (1 : 4)	313.15	531.5	-3.94	-2.47	-3.39	-4.02	
[ACh]Cl-Guaiacol (1 : 4)	323.15	53	-6.38	-5.00	-5.98	-6.36	
[ACh]Cl-Guaiacol (1 : 4)	323.15	165.3	-5.24	-3.86	-4.82	-5.29	
[ACh]Cl-Guaiacol (1 : 4)	323.15	241.6	-4.85	-3.48	-4.42	-4.90	
[ACh]Cl-Guaiacol (1 : 4)	323.15	339.3	-4.52	-3.14	-4.05	-4.57	
[ACh]Cl-Guaiacol (1 : 4)	323.15	437.4	-4.25	-2.88	-3.77	-4.34	
[ACh]Cl-Guaiacol (1 : 4)	323.15	536	-4.06	-2.68	-3.54	-4.15	
[TBP]Br-Phenol (1 : 4)	313.15	234.5	-3.54	-3.33	-4.32	-3.67	Wang et al. (2019)[18]
[TBP]Br-Phenol (1 : 4)	313.15	463.6	-2.94	-2.67	-3.60	-2.96	
[TBP]Br-Phenol (1 : 4)	313.15	737	-2.35	-2.23	-3.09	-2.44	
[TBP]Br-Phenol (1 : 4)	313.15	932	-2.09	-2.01	-2.82	-2.15	
[TBP]Br-Phenol (1 : 4)	313.15	1188.8	-1.85	-1.77	-2.53	-1.85	
[TBP]Br-Phenol (1 : 4)	313.15	1578.5	-1.59	-1.50	-2.16	-1.53	
[TBP]Br-Phenol (1 : 4)	323.15	163.8	-3.97	-3.89	-4.85	-4.11	
[TBP]Br-Phenol (1 : 4)	323.15	399	-3.22	-3.02	-3.92	-3.18	
[TBP]Br-Phenol (1 : 4)	323.15	608.4	-2.69	-2.61	-3.46	-2.73	
[TBP]Br-Phenol (1 : 4)	323.15	786.9	-2.39	-2.36	-3.17	-2.42	
[TBP]Br-Phenol (1 : 4)	323.15	1018.7	-2.09	-2.12	-2.87	-2.11	
[TBP]Br-Phenol (1 : 4)	323.15	1241.2	-1.90	-1.93	-2.62	-1.87	
[TBP]Br-Phenol (1 : 4)	333.15	203.4	-4.00	-3.87	-4.77	-3.95	
[TBP]Br-Phenol (1 : 4)	333.15	481.2	-3.19	-3.03	-3.86	-3.06	
[TBP]Br-Phenol (1 : 4)	333.15	601.7	-2.84	-2.81	-3.62	-2.81	
[TBP]Br-Phenol (1 : 4)	333.15	856	-2.42	-2.47	-3.21	-2.40	

[TBP]Br-Phenol (1 : 4)	333.15	1024.7	-2.16	-2.30	-3.00	-2.18	
[TBP]Br-Phenol (1 : 4)	333.15	1272.9	-1.94	-2.09	-2.73	-1.93	
[TBP]Br-DEG (1 : 4)	313.15	183.5	-3.75	-3.60	-4.60	-3.65	Wang et al. (2019)[18]
[TBP]Br-DEG (1 : 4)	313.15	379.8	-3.03	-2.90	-3.85	-2.87	
[TBP]Br-DEG (1 : 4)	313.15	621.6	-2.42	-2.45	-3.34	-2.38	
[TBP]Br-DEG (1 : 4)	313.15	892.3	-2.02	-2.12	-2.95	-1.99	
[TBP]Br-DEG (1 : 4)	313.15	1024.5	-1.85	-2.00	-2.80	-1.84	
[TBP]Br-DEG (1 : 4)	313.15	1398.1	-1.55	-1.74	-2.44	-1.51	
[TBP]Br-DEG (1 : 4)	323.15	94.4	-4.34	-4.46	-5.44	-4.51	
[TBP]Br-DEG (1 : 4)	323.15	270.7	-3.56	-3.43	-4.36	-3.36	
[TBP]Br-DEG (1 : 4)	323.15	464.2	-2.75	-2.91	-3.80	-2.81	
[TBP]Br-DEG (1 : 4)	323.15	700.8	-2.33	-2.53	-3.35	-2.38	
[TBP]Br-DEG (1 : 4)	323.15	895.4	-2.04	-2.30	-3.08	-2.10	
[TBP]Br-DEG (1 : 4)	323.15	1148	-1.79	-2.08	-2.80	-1.82	
[TBP]Br-DEG (1 : 4)	333.15	164.8	-4.08	-4.11	-5.02	-4.02	
[TBP]Br-DEG (1 : 4)	333.15	397.4	-3.19	-3.25	-4.11	-3.08	
[TBP]Br-DEG (1 : 4)	333.15	642.3	-2.56	-2.79	-3.59	-2.57	
[TBP]Br-DEG (1 : 4)	333.15	903.8	-2.13	-2.47	-3.21	-2.18	
[TBP]Br-DEG (1 : 4)	333.15	1103.6	-1.89	-2.29	-2.98	-1.95	
[TBP]Br-DEG (1 : 4)	333.15	1396.5	-1.63	-2.08	-2.69	-1.69	
[ATPP]Br-Phenol (1 : 4)	313.15	218.2	-3.51	-3.41	-4.40	-3.43	Wang et al. (2019)[18]
[ATPP]Br-Phenol (1 : 4)	313.15	397.4	-2.80	-2.83	-3.77	-2.83	
[ATPP]Br-Phenol (1 : 4)	313.15	631.6	-2.31	-2.38	-3.27	-2.32	
[ATPP]Br-Phenol (1 : 4)	313.15	886.6	-1.95	-2.06	-2.89	-1.90	
[ATPP]Br-Phenol (1 : 4)	313.15	1093.3	-1.73	-1.86	-2.64	-1.63	
[ATPP]Br-Phenol (1 : 4)	313.15	1333.2	-1.54	-1.67	-2.39	-1.39	
[ATPP]Br-Phenol (1 : 4)	323.15	231.4	-3.38	-3.56	-4.50	-3.54	

[ATPP]Br-Phenol (1 : 4)	323.15	415.3	-3.03	-2.99	-3.88	-2.95	
[ATPP]Br-Phenol (1 : 4)	323.15	683.8	-2.44	-2.51	-3.34	-2.39	
[ATPP]Br-Phenol (1 : 4)	323.15	904.6	-2.08	-2.24	-3.01	-2.04	
[ATPP]Br-Phenol (1 : 4)	323.15	1125.7	-1.80	-2.03	-2.75	-1.75	
[ATPP]Br-Phenol (1 : 4)	323.15	1325.9	-1.62	-1.87	-2.55	-1.55	
[ATPP]Br-Phenol (1 : 4)	333.15	182.7	-3.90	-3.99	-4.90	-3.93	
[ATPP]Br-Phenol (1 : 4)	333.15	472.8	-2.94	-3.05	-3.89	-2.97	
[ATPP]Br-Phenol (1 : 4)	333.15	664.5	-2.55	-2.72	-3.51	-2.58	
[ATPP]Br-Phenol (1 : 4)	333.15	821.3	-2.27	-2.52	-3.27	-2.31	
[ATPP]Br-Phenol (1 : 4)	333.15	1066.4	-1.96	-2.27	-2.96	-1.96	
[ATPP]Br-Phenol (1 : 4)	333.15	1345.1	-1.72	-2.04	-2.67	-1.67	
[ATPP]Br-DEG (1 : 4)	303.15	160	-3.34	-3.52	-4.57	-3.66	Ghaedi et al (2017)[19]
[ATPP]Br-DEG (1 : 4)	303.15	340	-2.57	-2.80	-3.81	-2.86	
[ATPP]Br-DEG (1 : 4)	303.15	491	-2.18	-2.46	-3.43	-2.48	
[ATPP]Br-DEG (1 : 4)	303.15	739	-1.75	-2.09	-3.01	-2.02	
[ATPP]Br-DEG (1 : 4)	303.15	870	-1.52	-1.95	-2.83	-1.83	
[ATPP]Br-TEG (1 : 4)	303.15	142	-3.32	-3.19	-4.25	-3.69	
[ATPP]Br-TEG (1 : 4)	303.15	333	-2.46	-2.39	-3.40	-2.79	
[ATPP]Br-TEG (1 : 4)	303.15	490	-2.06	-2.04	-3.01	-2.36	
[ATPP]Br-TEG (1 : 4)	303.15	718	-1.65	-1.71	-2.62	-1.87	
[ATPP]Br-TEG (1 : 4)	303.15	874	-1.41	-1.54	-2.42	-1.57	
[ATPP]Br-TEG (1 : 4)	303.15	1070	-1.20	-1.31	-2.14	-1.26	
[Ch]Cl-Phenol (1 : 4)	313.15	2360	-2.36	-1.35	-1.82	-2.58	Ji et al. (2016)[11]
[Ch]Cl-Phenol (1 : 4)	313.15	4470	-1.97	-0.77	-0.73	-1.97	
[TBA]Br-HexA (1 : 4)	303.15	506	-2.92	-2.45	-3.42	-2.96	Luo et al. (2021)[10]
[TBA]Br-HexA (1 : 4)	303.15	623	-2.74	-2.26	-3.20	-2.78	
[TBA]Br-HexA (1 : 4)	303.15	826	-2.52	-2.01	-2.90	-2.54	

[TBA]Br-HexA (1 : 4)	303.15	930	-2.36	-1.90	-2.77	-2.43	
[TBA]Br-HexA (1 : 4)	303.15	1035	-2.29	-1.81	-2.65	-2.34	
[TBA]Br-HexA (1 : 4)	303.15	1125	-2.20	-1.73	-2.55	-2.27	
[TBA]Br-HexA (1 : 4)	303.15	1335	-2.04	-1.58	-2.35	-2.14	
[TBA]Br-HexA (1 : 4)	313.15	521	-3.11	-2.63	-3.54	-3.10	
[TBA]Br-HexA (1 : 4)	313.15	627	-2.91	-2.45	-3.34	-2.94	
[TBA]Br-HexA (1 : 4)	313.15	754	-2.81	-2.28	-3.14	-2.78	
[TBA]Br-HexA (1 : 4)	313.15	829	-2.67	-2.20	-3.04	-2.70	
[TBA]Br-HexA (1 : 4)	313.15	911	-2.61	-2.11	-2.93	-2.61	
[TBA]Br-HexA (1 : 4)	313.15	990	-2.49	-2.03	-2.84	-2.54	
[TBA]Br-HexA (1 : 4)	313.15	1170	-2.40	-1.88	-2.64	-2.40	
[TBA]Br-HexA (1 : 4)	323.15	457	-3.48	-2.94	-3.83	-3.37	
[TBA]Br-HexA (1 : 4)	323.15	540	-3.32	-2.78	-3.65	-3.23	
[TBA]Br-HexA (1 : 4)	323.15	652	-3.16	-2.60	-3.44	-3.06	
[TBA]Br-HexA (1 : 4)	323.15	723	-3.03	-2.51	-3.33	-2.97	
[TBA]Br-HexA (1 : 4)	323.15	847	-2.90	-2.36	-3.15	-2.83	
[TBA]Br-HexA (1 : 4)	323.15	993	-2.73	-2.21	-2.97	-2.69	
[TBA]Br-HexA (1 : 4)	323.15	1145	-2.59	-2.08	-2.80	-2.57	
[TEA]Br-HexA (1 : 4)	303.15	483	-3.33	-2.56	-3.53	-3.21	Luo et al. (2021)[10]
[TEA]Br-HexA (1 : 4)	303.15	578	-3.13	-2.39	-3.34	-3.05	
[TEA]Br-HexA (1 : 4)	303.15	661	-3.07	-2.26	-3.19	-2.94	
[TEA]Br-HexA (1 : 4)	303.15	824	-2.78	-2.05	-2.94	-2.74	
[TEA]Br-HexA (1 : 4)	303.15	922	-2.68	-1.95	-2.82	-2.64	
[TEA]Br-HexA (1 : 4)	303.15	1024	-2.56	-1.85	-2.69	-2.55	
[TEA]Br-HexA (1 : 4)	303.15	1263	-2.35	-1.66	-2.44	-2.38	
[TEA]Br-HexA (1 : 4)	313.15	388	-3.71	-2.98	-3.92	-3.58	
[TEA]Br-HexA (1 : 4)	313.15	456	-3.57	-2.82	-3.75	-3.43	
[TEA]Br-HexA (1 : 4)	313.15	585	-3.32	-2.58	-3.48	-3.21	

[TEA]Br-HexA (1 : 4)	313.15	714	-3.10	-2.39	-3.26	-3.03	
[TEA]Br-HexA (1 : 4)	313.15	856	-2.89	-2.22	-3.05	-2.87	
[TEA]Br-HexA (1 : 4)	313.15	992	-2.74	-2.08	-2.88	-2.74	
[TEA]Br-HexA (1 : 4)	313.15	1161	-2.55	-1.93	-2.69	-2.61	
[TEA]Br-HexA (1 : 4)	323.15	458	-3.69	-3.01	-3.89	-3.59	
[TEA]Br-HexA (1 : 4)	323.15	553	-3.49	-2.83	-3.69	-3.42	
[TEA]Br-HexA (1 : 4)	323.15	626	-3.38	-2.71	-3.55	-3.31	
[TEA]Br-HexA (1 : 4)	323.15	718	-3.23	-2.57	-3.39	-3.18	
[TEA]Br-HexA (1 : 4)	323.15	804	-3.11	-2.46	-3.27	-3.08	
[TEA]Br-HexA (1 : 4)	323.15	947	-2.94	-2.31	-3.07	-2.93	
[TEA]Br-HexA (1 : 4)	323.15	1114	-2.83	-2.16	-2.88	-2.79	
Betain-1,2-propanediol (1 : 5)	308.15	190.8	-5.26	-4.08	-5.13	-5.17	He et al. (2022)[16]
Betain-1,2-propanediol (1 : 5)	308.15	302.3	-4.82	-3.62	-4.63	-4.68	
Betain-1,2-propanediol (1 : 5)	308.15	404.3	-4.49	-3.33	-4.31	-4.42	
Betain-1,2-propanediol (1 : 5)	308.15	506.5	-4.27	-3.11	-4.06	-4.23	
Betain-1,2-propanediol (1 : 5)	308.15	606.5	-4.06	-2.93	-3.84	-4.08	
Betain-1,2-propanediol (1 : 5)	318.15	208	-5.40	-4.19	-5.22	-5.24	
Betain-1,2-propanediol (1 : 5)	318.15	317.5	-4.98	-3.77	-4.76	-4.81	
Betain-1,2-propanediol (1 : 5)	318.15	424.8	-4.61	-3.48	-4.44	-4.54	
Betain-1,2-propanediol (1 : 5)	318.15	531.8	-4.37	-3.26	-4.18	-4.35	
Betain-1,2-propanediol (1 : 5)	318.15	637	-4.17	-3.08	-3.97	-4.21	
Betain-1,2-propanediol (1 : 5)	328.15	211.3	-5.55	-4.36	-5.37	-5.36	
Betain-1,2-propanediol (1 : 5)	328.15	332.3	-5.08	-3.91	-4.88	-4.90	
Betain-1,2-propanediol (1 : 5)	328.15	444.3	-4.71	-3.62	-4.55	-4.65	
Betain-1,2-propanediol (1 : 5)	328.15	556.3	-4.47	-3.39	-4.29	-4.46	
Betain-1,2-propanediol (1 : 5)	328.15	666.5	-4.25	-3.21	-4.08	-4.31	
Betain-1,2-propanediol (1 : 5)	338.15	213.5	-5.68	-4.52	-5.52	-5.49	
Betain-1,2-propanediol (1 : 5)	338.15	338.8	-5.19	-4.06	-5.01	-5.03	

Betain-1,2-propanediol (1 : 5)	338.15	463.5	-4.80	-3.74	-4.66	-4.75	
Betain-1,2-propanediol (1 : 5)	338.15	573.3	-4.56	-3.53	-4.42	-4.57	
Betain-1,2-propanediol (1 : 5)	338.15	687.3	-4.34	-3.35	-4.20	-4.42	
Betain-1,2-propanediol (1 : 5)	348.15	215	-5.84	-4.67	-5.65	-5.63	
Betain-1,2-propanediol (1 : 5)	348.15	344.5	-5.28	-4.20	-5.14	-5.15	
Betain-1,2-propanediol (1 : 5)	348.15	482	-4.88	-3.86	-4.76	-4.86	
Betain-1,2-propanediol (1 : 5)	348.15	593.5	-4.64	-3.65	-4.52	-4.68	
Betain-1,2-propanediol (1 : 5)	348.15	729	-4.41	-3.45	-4.27	-4.50	
[Ch]Cl-Guaiacol (1 : 5)	293.15	52.8	-6.03	-4.31	-5.42	-5.97	Liu et al. (2017)[14]
[Ch]Cl-Guaiacol (1 : 5)	293.15	139.8	-5.13	-3.33	-4.41	-5.07	
[Ch]Cl-Guaiacol (1 : 5)	293.15	246.1	-4.53	-2.76	-3.81	-4.47	
[Ch]Cl-Guaiacol (1 : 5)	293.15	331.1	-4.23	-2.46	-3.48	-4.19	
[Ch]Cl-Guaiacol (1 : 5)	293.15	419.5	-3.99	-2.21	-3.21	-3.97	
[Ch]Cl-Guaiacol (1 : 5)	293.15	528.4	-3.76	-1.97	-2.94	-3.77	
[Ch]Cl-Guaiacol (1 : 5)	303.15	46.9	-6.38	-4.67	-5.77	-6.21	
[Ch]Cl-Guaiacol (1 : 5)	303.15	145.2	-5.26	-3.54	-4.60	-5.19	
[Ch]Cl-Guaiacol (1 : 5)	303.15	239.4	-4.73	-3.03	-4.07	-4.67	
[Ch]Cl-Guaiacol (1 : 5)	303.15	330.4	-4.41	-2.71	-3.72	-4.35	
[Ch]Cl-Guaiacol (1 : 5)	303.15	431.8	-4.13	-2.44	-3.41	-4.11	
[Ch]Cl-Guaiacol (1 : 5)	303.15	538.9	-3.91	-2.21	-3.15	-3.91	
[Ch]Cl-Guaiacol (1 : 5)	313.15	55.3	-6.27	-4.73	-5.81	-6.25	
[Ch]Cl-Guaiacol (1 : 5)	313.15	140.7	-5.40	-3.80	-4.85	-5.39	
[Ch]Cl-Guaiacol (1 : 5)	313.15	235.9	-4.88	-3.28	-4.30	-4.84	
[Ch]Cl-Guaiacol (1 : 5)	313.15	331.8	-4.54	-2.93	-3.92	-4.51	
[Ch]Cl-Guaiacol (1 : 5)	313.15	434.8	-4.25	-2.66	-3.62	-4.26	
[Ch]Cl-Guaiacol (1 : 5)	313.15	536.4	-4.05	-2.44	-3.37	-4.07	
[Ch]Cl-Guaiacol (1 : 5)	323.15	48.5	-6.50	-5.07	-6.14	-6.48	
[Ch]Cl-Guaiacol (1 : 5)	323.15	146.3	-5.52	-3.97	-5.00	-5.49	

[Ch]Cl-Guaiacol (1 : 5)	323.15	237.5	-5.04	-3.48	-4.49	-4.99	
[Ch]Cl-Guaiacol (1 : 5)	323.15	334.9	-4.67	-3.13	-4.11	-4.65	
[Ch]Cl-Guaiacol (1 : 5)	323.15	432	-4.42	-2.88	-3.82	-4.42	
[Ch]Cl-Guaiacol (1 : 5)	323.15	529.2	-4.21	-2.67	-3.59	-4.24	
[DEA]Cl-Guaiacol (1 : 5)	293.15	48.8	-5.95	-4.40	-5.51	-5.95	Liu et al. (2017)[14]
[DEA]Cl-Guaiacol (1 : 5)	293.15	131.9	-4.95	-3.40	-4.49	-5.04	
[DEA]Cl-Guaiacol (1 : 5)	293.15	245.3	-4.35	-2.77	-3.83	-4.35	
[DEA]Cl-Guaiacol (1 : 5)	293.15	326.5	-4.06	-2.48	-3.51	-4.04	
[DEA]Cl-Guaiacol (1 : 5)	293.15	419.2	-3.81	-2.23	-3.22	-3.77	
[DEA]Cl-Guaiacol (1 : 5)	293.15	522.3	-3.59	-2.00	-2.96	-3.51	
[DEA]Cl-Guaiacol (1 : 5)	303.15	57	-5.91	-4.49	-5.59	-5.98	
[DEA]Cl-Guaiacol (1 : 5)	303.15	148.3	-5.01	-3.53	-4.60	-5.07	
[DEA]Cl-Guaiacol (1 : 5)	303.15	244.9	-4.49	-3.03	-4.06	-4.52	
[DEA]Cl-Guaiacol (1 : 5)	303.15	341.2	-4.16	-2.69	-3.69	-4.16	
[DEA]Cl-Guaiacol (1 : 5)	303.15	424.4	-3.94	-2.47	-3.44	-3.92	
[DEA]Cl-Guaiacol (1 : 5)	303.15	520.1	-3.74	-2.26	-3.21	-3.68	
[DEA]Cl-Guaiacol (1 : 5)	313.15	58.8	-6.03	-4.69	-5.77	-6.10	
[DEA]Cl-Guaiacol (1 : 5)	313.15	156	-5.08	-3.71	-4.76	-5.17	
[DEA]Cl-Guaiacol (1 : 5)	313.15	273.6	-4.52	-3.14	-4.16	-4.56	
[DEA]Cl-Guaiacol (1 : 5)	313.15	336.3	-4.32	-2.93	-3.93	-4.34	
[DEA]Cl-Guaiacol (1 : 5)	313.15	428.6	-4.07	-2.69	-3.65	-4.07	
[DEA]Cl-Guaiacol (1 : 5)	313.15	550.7	-3.82	-2.43	-3.35	-3.78	
[DEA]Cl-Guaiacol (1 : 5)	323.15	59.9	-6.21	-4.88	-5.95	-6.23	
[DEA]Cl-Guaiacol (1 : 5)	323.15	193.1	-4.99	-3.71	-4.73	-5.08	
[DEA]Cl-Guaiacol (1 : 5)	323.15	253.3	-4.73	-3.43	-4.44	-4.79	
[DEA]Cl-Guaiacol (1 : 5)	323.15	333.8	-4.45	-3.16	-4.13	-4.50	
[DEA]Cl-Guaiacol (1 : 5)	323.15	431.5	-4.19	-2.89	-3.84	-4.22	
[DEA]Cl-Guaiacol (1 : 5)	323.15	535.8	-3.96	-2.67	-3.59	-3.96	

[ACh]Cl-Guaiacol (1 : 5)	293.15	49.3	-6.07	-4.36	-5.47	-5.98	Liu et al. (2017)[14]
[ACh]Cl-Guaiacol (1 : 5)	293.15	137.3	-5.04	-3.33	-4.42	-5.04	
[ACh]Cl-Guaiacol (1 : 5)	293.15	230	-4.49	-2.81	-3.87	-4.48	
[ACh]Cl-Guaiacol (1 : 5)	293.15	325.5	-4.14	-2.46	-3.49	-4.14	
[ACh]Cl-Guaiacol (1 : 5)	293.15	421.7	-3.87	-2.20	-3.19	-3.91	
[ACh]Cl-Guaiacol (1 : 5)	293.15	522.2	-3.67	-1.98	-2.94	-3.73	
[ACh]Cl-Guaiacol (1 : 5)	303.15	52	-6.07	-4.55	-5.65	-6.09	
[ACh]Cl-Guaiacol (1 : 5)	303.15	138.8	-5.13	-3.57	-4.63	-5.18	
[ACh]Cl-Guaiacol (1 : 5)	303.15	222.9	-4.66	-3.09	-4.13	-4.67	
[ACh]Cl-Guaiacol (1 : 5)	303.15	333.2	-4.25	-2.68	-3.69	-4.28	
[ACh]Cl-Guaiacol (1 : 5)	303.15	428	-4.00	-2.43	-3.41	-4.06	
[ACh]Cl-Guaiacol (1 : 5)	303.15	528.2	-3.79	-2.22	-3.16	-3.88	
[ACh]Cl-Guaiacol (1 : 5)	313.15	49.9	-6.38	-4.82	-5.90	-6.27	
[ACh]Cl-Guaiacol (1 : 5)	313.15	145	-5.22	-3.75	-4.80	-5.29	
[ACh]Cl-Guaiacol (1 : 5)	313.15	237	-4.73	-3.26	-4.28	-4.77	
[ACh]Cl-Guaiacol (1 : 5)	313.15	335.1	-4.39	-2.91	-3.90	-4.44	
[ACh]Cl-Guaiacol (1 : 5)	313.15	432.8	-4.13	-2.65	-3.61	-4.21	
[ACh]Cl-Guaiacol (1 : 5)	313.15	526.5	-3.94	-2.45	-3.38	-4.04	
[ACh]Cl-Guaiacol (1 : 5)	323.15	48.6	-6.44	-5.05	-6.12	-6.42	
[ACh]Cl-Guaiacol (1 : 5)	323.15	144.3	-5.34	-3.96	-5.00	-5.44	
[ACh]Cl-Guaiacol (1 : 5)	323.15	238.7	-4.85	-3.46	-4.47	-4.91	
[ACh]Cl-Guaiacol (1 : 5)	323.15	341.3	-4.49	-3.10	-4.08	-4.57	
[ACh]Cl-Guaiacol (1 : 5)	323.15	436.2	-4.23	-2.85	-3.80	-4.35	
[ACh]Cl-Guaiacol (1 : 5)	323.15	535.8	-4.02	-2.64	-3.56	-4.17	
[Ch]Cl-FA (1 : 5)	303.15	77.3	-5.78	-4.54	-5.63	-5.79	Lu et al. (2015)[12]
[Ch]Cl-FA (1 : 5)	303.15	210.2	-4.77	-3.54	-4.58	-4.75	
[Ch]Cl-FA (1 : 5)	303.15	316.5	-4.38	-3.12	-4.13	-4.33	
[Ch]Cl-FA (1 : 5)	303.15	414.7	-4.09	-2.85	-3.83	-4.06	

[Ch]Cl-FA (1 : 5)	303.15	516.3	-3.88	-2.63	-3.57	-3.85	
[Ch]Cl-FA (1 : 5)	303.15	577.4	-3.76	-2.51	-3.44	-3.74	
[Ch]Cl-FA (1 : 5)	313.15	70.9	-5.99	-4.85	-5.92	-5.99	
[Ch]Cl-FA (1 : 5)	313.15	203.4	-4.95	-3.79	-4.82	-4.92	
[Ch]Cl-FA (1 : 5)	313.15	304.7	-4.55	-3.38	-4.39	-4.50	
[Ch]Cl-FA (1 : 5)	313.15	404.9	-4.26	-3.10	-4.07	-4.23	
[Ch]Cl-FA (1 : 5)	313.15	505.2	-4.04	-2.87	-3.81	-4.01	
[Ch]Cl-FA (1 : 5)	313.15	570.2	-3.92	-2.75	-3.67	-3.89	
[Ch]Cl-FA (1 : 5)	323.15	71.3	-6.07	-5.05	-6.11	-6.11	
[Ch]Cl-FA (1 : 5)	323.15	194.1	-5.10	-4.04	-5.07	-5.10	
[Ch]Cl-FA (1 : 5)	323.15	301	-4.67	-3.60	-4.59	-4.64	
[Ch]Cl-FA (1 : 5)	323.15	403.6	-4.37	-3.31	-4.26	-4.36	
[Ch]Cl-FA (1 : 5)	323.15	502.8	-4.15	-3.08	-4.01	-4.14	
[Ch]Cl-FA (1 : 5)	323.15	573.1	-4.02	-2.95	-3.85	-4.01	
[Ch]Cl-FA (1 : 5)	333.15	74.9	-6.21	-5.19	-6.24	-6.17	
[Ch]Cl-FA (1 : 5)	333.15	204.2	-5.22	-4.18	-5.19	-5.16	
[Ch]Cl-FA (1 : 5)	333.15	315.2	-4.78	-3.75	-4.72	-4.71	
[Ch]Cl-FA (1 : 5)	333.15	409.6	-4.50	-3.48	-4.43	-4.46	
[Ch]Cl-FA (1 : 5)	333.15	511.7	-4.29	-3.26	-4.17	-4.24	
[Ch]Cl-FA (1 : 5)	333.15	577.2	-4.17	-3.14	-4.03	-4.11	
[Ch]Cl-LEV (1 : 5)	303.15	71.5	-5.50	-4.74	-5.83	-5.59	Lu et al. (2015)[12]
[Ch]Cl-LEV (1 : 5)	303.15	188.9	-4.49	-3.77	-4.82	-4.66	
[Ch]Cl-LEV (1 : 5)	303.15	296.9	-4.03	-3.31	-4.33	-4.19	
[Ch]Cl-LEV (1 : 5)	303.15	401.7	-3.74	-3.01	-3.99	-3.89	
[Ch]Cl-LEV (1 : 5)	303.15	501.5	-3.53	-2.78	-3.74	-3.65	
[Ch]Cl-LEV (1 : 5)	303.15	566.7	-3.40	-2.66	-3.59	-3.51	
[Ch]Cl-LEV (1 : 5)	313.15	73.1	-5.74	-4.94	-6.02	-5.73	
[Ch]Cl-LEV (1 : 5)	313.15	200.1	-4.65	-3.93	-4.97	-4.76	

[Ch]Cl-LEV (1 : 5)	313.15	308.4	-4.19	-3.50	-4.50	-4.32	
[Ch]Cl-LEV (1 : 5)	313.15	412.2	-3.91	-3.21	-4.17	-4.02	
[Ch]Cl-LEV (1 : 5)	313.15	511.4	-3.70	-2.99	-3.92	-3.79	
[Ch]Cl-LEV (1 : 5)	313.15	573.7	-3.57	-2.87	-3.79	-3.66	
[Ch]Cl-LEV (1 : 5)	323.15	75.6	-5.81	-5.11	-6.17	-5.84	
[Ch]Cl-LEV (1 : 5)	323.15	208.8	-4.79	-4.09	-5.11	-4.86	
[Ch]Cl-LEV (1 : 5)	323.15	315.9	-4.36	-3.68	-4.66	-4.44	
[Ch]Cl-LEV (1 : 5)	323.15	418.4	-4.05	-3.40	-4.35	-4.15	
[Ch]Cl-LEV (1 : 5)	323.15	517.2	-3.85	-3.18	-4.10	-3.92	
[Ch]Cl-LEV (1 : 5)	323.15	579.9	-3.73	-3.07	-3.97	-3.79	
[Ch]Cl-LEV (1 : 5)	333.15	78.9	-5.91	-5.26	-6.31	-5.92	
[Ch]Cl-LEV (1 : 5)	333.15	216.1	-4.91	-4.25	-5.25	-4.95	
[Ch]Cl-LEV (1 : 5)	333.15	319.2	-4.51	-3.86	-4.83	-4.56	
[Ch]Cl-LEV (1 : 5)	333.15	417.3	-4.23	-3.59	-4.53	-4.28	
[Ch]Cl-LEV (1 : 5)	333.15	519.7	-4.02	-3.37	-4.28	-4.05	
[Ch]Cl-LEV (1 : 5)	333.15	581	-3.92	-3.26	-4.14	-3.92	
Betain-1,2-propanediol (1 : 6)	308.15	189.5	-5.19	-4.11	-5.17	-5.13	He et al. (2022)[16]
Betain-1,2-propanediol (1 : 6)	308.15	303.3	-4.76	-3.64	-4.66	-4.63	
Betain-1,2-propanediol (1 : 6)	308.15	403.8	-4.43	-3.35	-4.34	-4.37	
Betain-1,2-propanediol (1 : 6)	308.15	505	-4.20	-3.13	-4.08	-4.19	
Betain-1,2-propanediol (1 : 6)	308.15	604.5	-4.01	-2.95	-3.86	-4.04	
Betain-1,2-propanediol (1 : 6)	318.15	208	-5.30	-4.21	-5.29	-5.20	
Betain-1,2-propanediol (1 : 6)	318.15	318	-4.85	-3.78	-4.82	-4.76	
Betain-1,2-propanediol (1 : 6)	318.15	423.8	-4.53	-3.50	-4.49	-4.51	
Betain-1,2-propanediol (1 : 6)	318.15	529.8	-4.29	-3.27	-4.23	-4.32	
Betain-1,2-propanediol (1 : 6)	318.15	634.3	-4.10	-3.09	-4.01	-4.18	
Betain-1,2-propanediol (1 : 6)	328.15	213	-5.40	-4.36	-5.46	-5.31	
Betain-1,2-propanediol (1 : 6)	328.15	332.5	-4.95	-3.92	-4.97	-4.86	

Betain-1,2-propanediol (1 : 6)	328.15	443.3	-4.63	-3.63	-4.64	-4.61	
Betain-1,2-propanediol (1 : 6)	328.15	552.8	-4.36	-3.41	-4.38	-4.43	
Betain-1,2-propanediol (1 : 6)	328.15	663.3	-4.19	-3.23	-4.15	-4.28	
Betain-1,2-propanediol (1 : 6)	338.15	217.3	-5.50	-4.51	-5.62	-5.43	
Betain-1,2-propanediol (1 : 6)	338.15	346.5	-5.04	-4.04	-5.11	-4.97	
Betain-1,2-propanediol (1 : 6)	338.15	461.8	-4.70	-3.76	-4.78	-4.72	
Betain-1,2-propanediol (1 : 6)	338.15	576	-4.43	-3.54	-4.51	-4.53	
Betain-1,2-propanediol (1 : 6)	338.15	691.5	-4.25	-3.35	-4.29	-4.38	
Betain-1,2-propanediol (1 : 6)	348.15	226	-5.57	-4.63	-5.76	-5.54	
Betain-1,2-propanediol (1 : 6)	348.15	360.3	-5.12	-4.16	-5.24	-5.08	
Betain-1,2-propanediol (1 : 6)	348.15	480.5	-4.78	-3.87	-4.90	-4.83	
Betain-1,2-propanediol (1 : 6)	348.15	599.3	-4.50	-3.65	-4.64	-4.64	
Betain-1,2-propanediol (1 : 6)	348.15	719	-4.32	-3.47	-4.41	-4.49	
Betain-DEG (1 : 6)	308.15	202.8	-4.87	-3.65	-4.71	-4.85	He et al. (2022)[16]
Betain-DEG (1 : 6)	308.15	312.5	-4.43	-3.22	-4.24	-4.38	
Betain-DEG (1 : 6)	308.15	413.3	-4.12	-2.94	-3.92	-4.11	
Betain-DEG (1 : 6)	308.15	512.3	-3.89	-2.73	-3.68	-3.92	
Betain-DEG (1 : 6)	308.15	622	-3.68	-2.54	-3.44	-3.75	
Betain-DEG (1 : 6)	318.15	214.5	-5.02	-3.80	-4.88	-4.95	
Betain-DEG (1 : 6)	318.15	330.5	-4.56	-3.37	-4.41	-4.50	
Betain-DEG (1 : 6)	318.15	437.3	-4.25	-3.10	-4.09	-4.23	
Betain-DEG (1 : 6)	318.15	540.8	-4.01	-2.89	-3.84	-4.04	
Betain-DEG (1 : 6)	318.15	656	-3.78	-2.70	-3.61	-3.86	
Betain-DEG (1 : 6)	328.15	226	-5.15	-3.95	-5.04	-5.04	
Betain-DEG (1 : 6)	328.15	348	-4.69	-3.52	-4.57	-4.59	
Betain-DEG (1 : 6)	328.15	460.5	-4.37	-3.24	-4.25	-4.33	
Betain-DEG (1 : 6)	328.15	593.3	-4.12	-2.99	-3.94	-4.09	
Betain-DEG (1 : 6)	328.15	692	-3.90	-2.84	-3.75	-3.95	

Betain-DEG (1 : 6)	338.15	237	-5.28	-4.09	-5.19	-5.12	
Betain-DEG (1 : 6)	338.15	364.8	-4.80	-3.66	-4.71	-4.69	
Betain-DEG (1 : 6)	338.15	483	-4.48	-3.38	-4.39	-4.42	
Betain-DEG (1 : 6)	338.15	597.5	-4.23	-3.17	-4.13	-4.23	
Betain-DEG (1 : 6)	338.15	726.8	-4.01	-2.97	-3.89	-4.04	
Betain-DEG (1 : 6)	348.15	247.5	-5.40	-4.21	-5.33	-5.22	
Betain-DEG (1 : 6)	348.15	381	-4.91	-3.78	-4.85	-4.78	
Betain-DEG (1 : 6)	348.15	504.5	-4.60	-3.51	-4.53	-4.52	
Betain-DEG (1 : 6)	348.15	624.3	-4.33	-3.29	-4.27	-4.32	
Betain-DEG (1 : 6)	348.15	759.8	-4.11	-3.10	-4.02	-4.14	
Betain-DEA (1 : 6)	313.5	600	-2.50	-2.70	-3.62	-2.88	He et al. (2022)[16]
[TBA]Br-MDA (1 : 6)	303.15	445.6	-2.24	-2.37	-3.33	-2.43	Haider et al. (2018)[9]
[TBA]Br-MDA (1 : 6)	303.15	573	-2.18	-2.14	-3.05	-2.17	
[TBA]Br-MDA (1 : 6)	303.15	661.7	-2.11	-2.01	-2.89	-2.02	
[TBA]Br-MDA (1 : 6)	303.15	721	-1.99	-1.94	-2.80	-1.93	
[TBA]Br-MDA (1 : 6)	303.15	911.2	-1.89	-1.65	-2.43	-1.67	
[TBA]Br-MDA (1 : 6)	303.15	1096	-1.80	-1.48	-2.19	-1.47	
[TBA]Br-DEA (1 : 6)	303.15	523.4	-3.44	-2.51	-3.44	-3.11	Haider et al. (2018)[9]
[TBA]Br-DEA (1 : 6)	303.15	663.5	-2.99	-2.29	-3.17	-2.87	
[TBA]Br-DEA (1 : 6)	303.15	710	-2.83	-2.23	-3.09	-2.81	
[TBA]Br-DEA (1 : 6)	303.15	814	-2.65	-2.11	-2.93	-2.67	
[TBA]Br-DEA (1 : 6)	303.15	971	-2.41	-1.95	-2.71	-2.49	
[ATPP]Br-Phenol (1 : 6)	313.15	183.3	-3.71	-3.59	-4.67	-3.70	Wang et al. (2019)[18]
[ATPP]Br-Phenol (1 : 6)	313.15	409.8	-2.83	-2.79	-3.79	-2.89	
[ATPP]Br-Phenol (1 : 6)	313.15	669	-2.40	-2.31	-3.21	-2.39	
[ATPP]Br-Phenol (1 : 6)	313.15	871.7	-2.05	-2.05	-2.87	-2.10	

[ATPP]Br-Phenol (1 : 6)	313.15	1098.5	-1.80	-1.82	-2.55	-1.84	
[ATPP]Br-Phenol (1 : 6)	313.15	1320.3	-1.63	-1.69	-2.33	-1.65	
[ATPP]Br-Phenol (1 : 6)	323.15	159.9	-3.83	-3.93	-5.04	-4.00	
[ATPP]Br-Phenol (1 : 6)	323.15	327.3	-3.08	-3.22	-4.27	-3.28	
[ATPP]Br-Phenol (1 : 6)	323.15	567.9	-2.55	-2.68	-3.63	-2.73	
[ATPP]Br-Phenol (1 : 6)	323.15	818.9	-2.36	-2.32	-3.17	-2.33	
[ATPP]Br-Phenol (1 : 6)	323.15	1088.3	-2.05	-2.03	-2.79	-2.01	
[ATPP]Br-Phenol (1 : 6)	323.15	1328.9	-1.81	-1.83	-2.49	-1.80	
[ATPP]Br-Phenol (1 : 6)	333.15	191.2	-3.85	-3.95	-5.06	-3.97	
[ATPP]Br-Phenol (1 : 6)	333.15	457.2	-2.96	-3.08	-4.10	-3.10	
[ATPP]Br-Phenol (1 : 6)	333.15	700.8	-2.55	-2.66	-3.58	-2.65	
[ATPP]Br-Phenol (1 : 6)	333.15	978.4	-2.32	-2.33	-3.15	-2.27	
[ATPP]Br-Phenol (1 : 6)	333.15	1123.6	-2.15	-2.19	-2.95	-2.11	
[ATPP]Br-Phenol (1 : 6)	333.15	1387.3	-1.91	-1.98	-2.64	-1.89	
[TPA]Cl-AC (1 : 6)	298.15	350	-3.89	-3.27	-4.25	-3.51	Sarmad et al. (2017)[6]
[TPA]Cl-AC (1 : 6)	298.15	554	-3.26	-2.83	-3.74	-3.10	
[TPA]Cl-AC (1 : 6)	298.15	826	-2.87	-2.46	-3.26	-2.78	
[TPA]Cl-AC (1 : 6)	298.15	1220	-2.56	-2.10	-2.76	-2.47	
[TPA]Cl-AC (1 : 6)	298.15	1652	-2.28	-1.84	-2.32	-2.26	
[TPA]Cl-AC (1 : 6)	298.15	2030	-2.08	-1.46	-1.80	-2.13	
[TBA]Br-EA (1 : 6)	298.15	1000	-2.15	-1.66	-2.40	-1.94	Sarmad et al. (2017)[6]
[TBA]Br-DEA (1 : 6)	298.15	1000	-2.25	-1.83	-2.57	-2.37	Sarmad et al. (2017)[6]
[MTPP]Br-EA (1 : 6)	298.15	1000	-1.94	-1.70	-2.43	-2.15	Ali et al. (2016)[20]
[Ch]Cl-EA (1 : 7)	298.15	182	-2.94	-3.64	-4.68	-3.38	Sarmad et al. (2017)[6]
[Ch]Cl-EA (1 : 7)	298.15	346	-2.13	-2.99	-3.96	-2.63	
[Ch]Cl-EA (1 : 7)	298.15	651	-1.83	-2.35	-3.18	-2.08	

[Ch]Cl-EA (1 : 7)	298.15	1010	-1.79	-1.89	-2.56	-1.73	
[Ch]Cl-EA (1 : 7)	298.15	1365	-1.69	-1.67	-2.17	-1.51	
[Ch]Cl-EA (1 : 7)	298.15	1741	-1.61	-1.44	-1.77	-1.36	
[Ch]Cl-EA (1 : 7)	298.15	2035	-1.60	-1.29	-1.49	-1.27	
[TBA]Br-EA (1 : 7)	298.15	381	-3.05	-2.67	-3.62	-2.70	Sarmad et al. (2017)[6]
[TBA]Br-EA (1 : 7)	298.15	637	-2.29	-2.22	-3.05	-2.25	
[TBA]Br-EA (1 : 7)	298.15	940	-1.79	-1.75	-2.44	-1.93	
[TBA]Br-EA (1 : 7)	298.15	1251	-1.61	-1.49	-2.04	-1.70	
[TBA]Br-EA (1 : 7)	298.15	1627	-1.55	-1.25	-1.63	-1.52	
[TBA]Br-EA (1 : 7)	298.15	2040	-1.51	-1.05	-1.25	-1.38	
[TPA]Cl-EA (1 : 7)	298.15	357	-2.10	-2.79	-3.75	-2.42	Sarmad et al. (2017)[6]
[TPA]Cl-EA (1 : 7)	298.15	645	-1.95	-2.25	-3.07	-1.89	
[TPA]Cl-EA (1 : 7)	298.15	952	-1.72	-1.82	-2.50	-1.57	
[TPA]Cl-EA (1 : 7)	298.15	1232	-1.59	-1.58	-2.14	-1.37	
[TPA]Cl-EA (1 : 7)	298.15	1673	-1.52	-1.30	-1.66	-1.16	
[TPA]Cl-EA (1 : 7)	298.15	2019	-1.50	-1.13	-1.33	-1.05	
[TBA]Br-MDA (1 : 7)	303.15	594.5	-2.17	-2.13	-3.01	-2.11	Haider et al. (2018)[9]
[TBA]Br-MDA (1 : 7)	303.15	674.3	-2.06	-2.02	-2.86	-1.98	
[TBA]Br-MDA (1 : 7)	303.15	723.4	-1.97	-1.88	-2.70	-1.91	
[TBA]Br-MDA (1 : 7)	303.15	802.5	-1.82	-1.78	-2.57	-1.80	
[TBA]Br-MDA (1 : 7)	303.15	940.7	-1.66	-1.64	-2.36	-1.63	
[TBA]Br-MDA (1 : 7)	303.15	1034.5	-1.62	-1.55	-2.23	-1.53	
[MTPP]Br-EA (1 : 7)	298.15	1000	-2.08	-1.72	-2.39	-2.14	Ali et al. (2016)[20]
[MTPP]Br-EA (1 : 8)	298.15	1000	-2.13	-1.74	-2.33	-2.12	Ali et al. (2016)[20]
[ATPP]Br-DEG (1 : 10)	303.15	156	-3.56	-3.69	-4.80	-3.49	Ghaedi et al (2017)[19]
[ATPP]Br-DEG (1 : 10)	303.15	340	-2.76	-2.95	-3.93	-2.64	

[ATPP]Br-DEG (1 : 10)	303.15	490	-2.37	-2.61	-3.49	-2.30	
[ATPP]Br-DEG (1 : 10)	303.15	734	-1.93	-2.24	-2.96	-1.93	
[ATPP]Br-DEG (1 : 10)	303.15	884	-1.71	-1.98	-2.60	-1.76	
[ATPP]Br-TEG (1 : 10)	303.15	149	-3.52	-3.22	-4.33	-3.68	Ghaedi et al (2017)[19]
[ATPP]Br-TEG (1 : 10)	303.15	331	-2.72	-2.46	-3.45	-2.78	
[ATPP]Br-TEG (1 : 10)	303.15	491	-2.29	-2.06	-2.94	-2.36	
[ATPP]Br-TEG (1 : 10)	303.15	744	-1.87	-1.68	-2.39	-1.88	
[ATPP]Br-TEG (1 : 10)	303.15	880	-1.68	-1.53	-2.15	-1.67	
[ATPP]Br-TEG (1 : 10)	303.15	1080	-1.45	-1.35	-1.84	-1.41	
[ATPP]Br-TEG (1 : 10)	303.15	1468	-1.12	-1.10	-1.33	-1.05	
[ATPP]Br-TEG (1 : 10)	303.15	1953	-0.80	-0.87	-0.78	-0.78	
[ATPP]Br-DEG (1 : 16)	303.15	166	-3.74	-3.67	-4.82	-3.43	Ghaedi et al (2017)[19]
[ATPP]Br-DEG (1 : 16)	303.15	325	-3.04	-3.03	-4.01	-2.69	
[ATPP]Br-DEG (1 : 16)	303.15	490	-2.58	-2.65	-3.44	-2.32	
[ATPP]Br-DEG (1 : 16)	303.15	742	-2.11	-2.18	-2.70	-1.96	
[ATPP]Br-DEG (1 : 16)	303.15	880	-1.90	-2.02	-2.39	-1.81	
[ATPP]Br-DEG (1 : 16)	303.15	1105	-1.63	-1.80	-1.92	-1.62	
[ATPP]Br-DEG (1 : 16)	303.15	1471	-1.29	-1.53	-1.25	-1.40	
[ATPP]Br-TEG (1 : 16)	303.15	146	-3.77	-3.26	-4.43	-3.76	Ghaedi et al (2017)[19]
[ATPP]Br-TEG (1 : 16)	303.15	323	-2.97	-2.47	-3.45	-2.85	
[ATPP]Br-TEG (1 : 16)	303.15	492	-2.49	-2.07	-2.87	-2.41	
[ATPP]Br-TEG (1 : 16)	303.15	744	-2.03	-1.69	-2.21	-1.94	
[ATPP]Br-TEG (1 : 16)	303.15	887	-1.82	-1.54	-1.90	-1.74	
[ATPP]Br-TEG (1 : 16)	303.15	1070	-1.58	-1.37	-1.53	-1.51	
[ATPP]Br-TEG (1 : 16)	303.15	1471	-1.25	-1.11	-0.83	-1.17	
[ATPP]Br-TEG (1 : 16)	303.15	1957	-0.89	-0.88	-0.07	-0.91	

[Ch]Cl-ECN (1 : 2)	298.15	110.4	-4.77	-4.21	-5.32	-5.11	Song et al. (2020)[21]
[Ch]Cl-ECN (1 : 2)	298.15	448.12	-3.35	-2.85	-3.92	-3.59	
[Ch]Cl-ECN (1 : 2)	298.15	802.84	-2.80	-2.29	-3.33	-2.87	
[Ch]Cl-ECN (1 : 2)	298.15	1119.38	-2.51	-1.98	-2.98	-2.41	
[Ch]Cl-ECN (1 : 2)	298.15	1407.8	-2.25	-1.77	-2.74	-2.11	
[Ch]Cl-ECN (1 : 2)	328.15	121.86	-5.08	-4.82	-5.58	-5.24	
[Ch]Cl-ECN (1 : 2)	328.15	408.2	-3.80	-3.62	-4.35	-3.96	
[Ch]Cl-ECN (1 : 2)	328.15	736.19	-3.24	-3.05	-3.74	-3.26	
[Ch]Cl-ECN (1 : 2)	328.15	937.5	-3.02	-2.81	-3.48	-2.94	
[Ch]Cl-ECN (1 : 2)	328.15	1140.2	-2.76	-2.62	-3.27	-2.67	
[Ch]Cl-ECN (1 : 2)	328.15	1409.54	-2.57	-2.42	-3.04	-2.41	
[Ch]Cl-ECN (1 : 3)	298.15	112.48	-4.77	-4.23	-5.32	-4.76	Song et al. (2020)[21]
[Ch]Cl-ECN (1 : 3)	298.15	404.38	-3.54	-2.96	-4.01	-3.43	
[Ch]Cl-ECN (1 : 3)	298.15	796.93	-2.92	-2.30	-3.28	-2.75	
[Ch]Cl-ECN (1 : 3)	298.15	1134.65	-2.59	-1.96	-2.88	-2.38	
[Ch]Cl-ECN (1 : 3)	298.15	1409.54	-2.38	-1.75	-2.62	-2.18	
[Ch]Cl-ECN (1 : 3)	328.15	112.48	-5.60	-4.92	-5.77	-5.32	
[Ch]Cl-ECN (1 : 3)	328.15	421.39	-4.03	-3.60	-4.40	-3.96	
[Ch]Cl-ECN (1 : 3)	328.15	816.02	-3.34	-2.95	-3.68	-3.28	
[Ch]Cl-ECN (1 : 3)	328.15	1138.47	-3.01	-2.62	-3.29	-2.91	
[Ch]Cl-ECN (1 : 3)	328.15	1405.72	-2.82	-2.41	-3.04	-2.71	

Cartesian coordinates (in Å) and calculated single point energy of calculation of triethylene glycol.

Triethyleneglycol (TEG)

 # B3LYP/6-311++G(d,p)

Energy: -538.0865

C	0.59685	0.47348	0.01593
C	-0.59449	-0.46890	-0.01644
O	1.77069	-0.31951	-0.00850
H	0.56096	1.08913	0.92554
H	0.56295	1.14732	-0.85141
H	-0.55778	-1.14549	0.84896
H	-0.56167	-1.08140	-0.92807
O	-1.77048	0.32224	0.01442
C	-2.96454	-0.43805	-0.01739
H	-3.01790	-1.10221	0.86120
H	-3.00411	-1.06907	-0.91641
C	-4.14325	0.52894	-0.01675
H	-4.08413	1.18463	0.86009
O	-5.38831	-0.16311	-0.07115
H	-4.10417	1.15675	-0.90803
C	2.96514	0.44352	0.01442
C	4.13492	-0.52476	-0.01528
H	3.01648	1.06000	0.92275
H	3.01594	1.11420	-0.85461
H	4.07746	-1.19199	0.85331
O	5.32478	0.26331	0.01162
H	4.07962	-1.13480	-0.92504
H	6.08677	-0.32190	-0.01330
H	-5.53160	-0.61402	0.76692

Triethyleneglycol (TEG)

 # B3LYP/6-311++G(d,p) empiricaldispersion=gd3

Energy: -538.1035

C	0.59685	0.47348	0.01593
C	-0.59449	-0.46890	-0.01644
O	1.77069	-0.31951	-0.00850
H	0.56096	1.08913	0.92554
H	0.56295	1.14732	-0.85141
H	-0.55778	-1.14549	0.84896
H	-0.56167	-1.08140	-0.92807
O	-1.77048	0.32224	0.01442
C	-2.96454	-0.43805	-0.01739
H	-3.01790	-1.10221	0.86120
H	-3.00411	-1.06907	-0.91641
C	-4.14325	0.52894	-0.01675
H	-4.08413	1.18463	0.86009
O	-5.38831	-0.16311	-0.07115
H	-4.10417	1.15675	-0.90803
C	2.96514	0.44352	0.01442
C	4.13492	-0.52476	-0.01528
H	3.01648	1.06000	0.92275
H	3.01594	1.11420	-0.85461
H	4.07746	-1.19199	0.85331
O	5.32478	0.26331	0.01162
H	4.07962	-1.13480	-0.92504
H	6.08677	-0.32190	-0.01330
H	-5.53160	-0.61402	0.76692

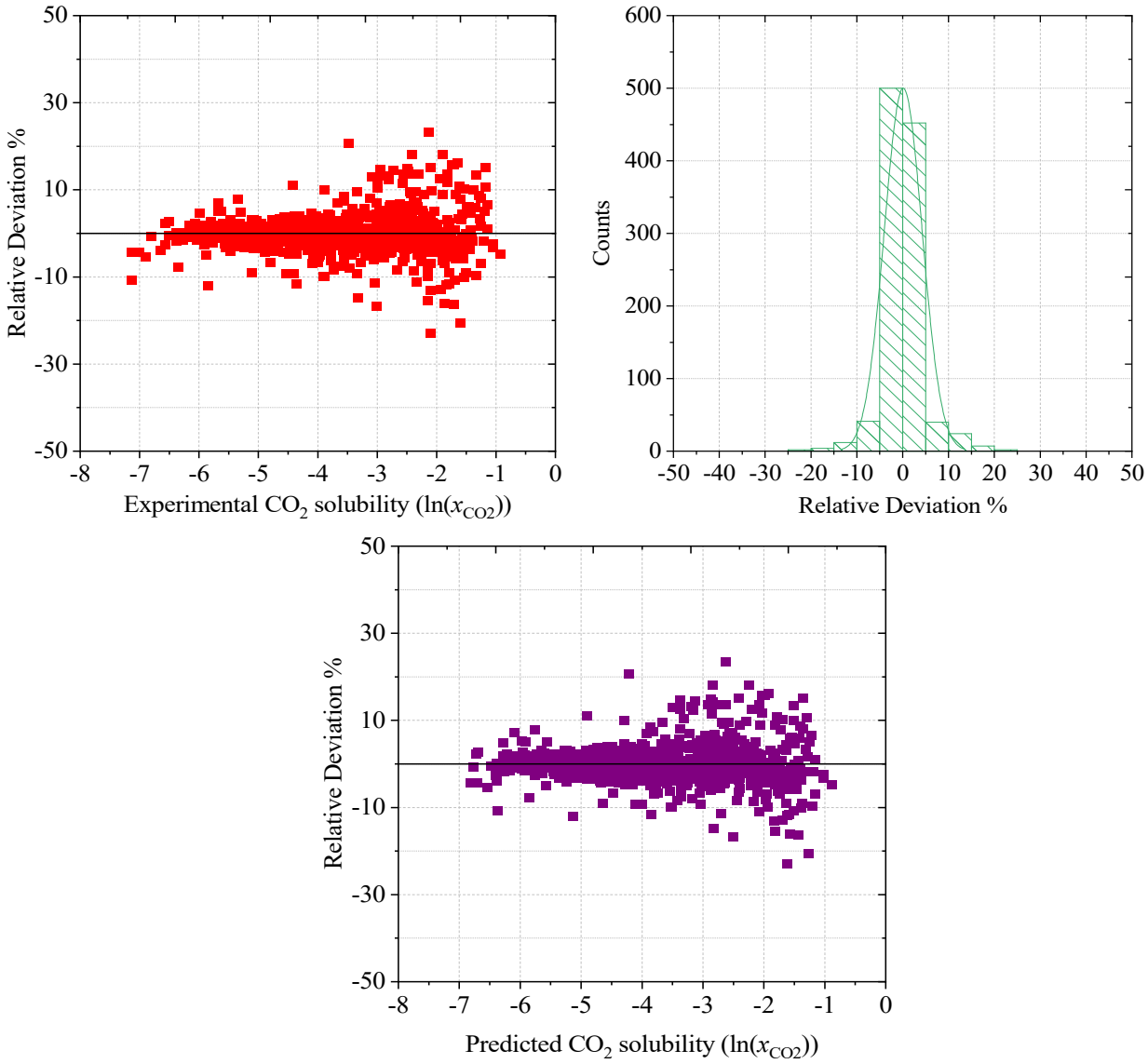

Figure S1. Statistical residual analysis of predicted CO2 solubility data for training set

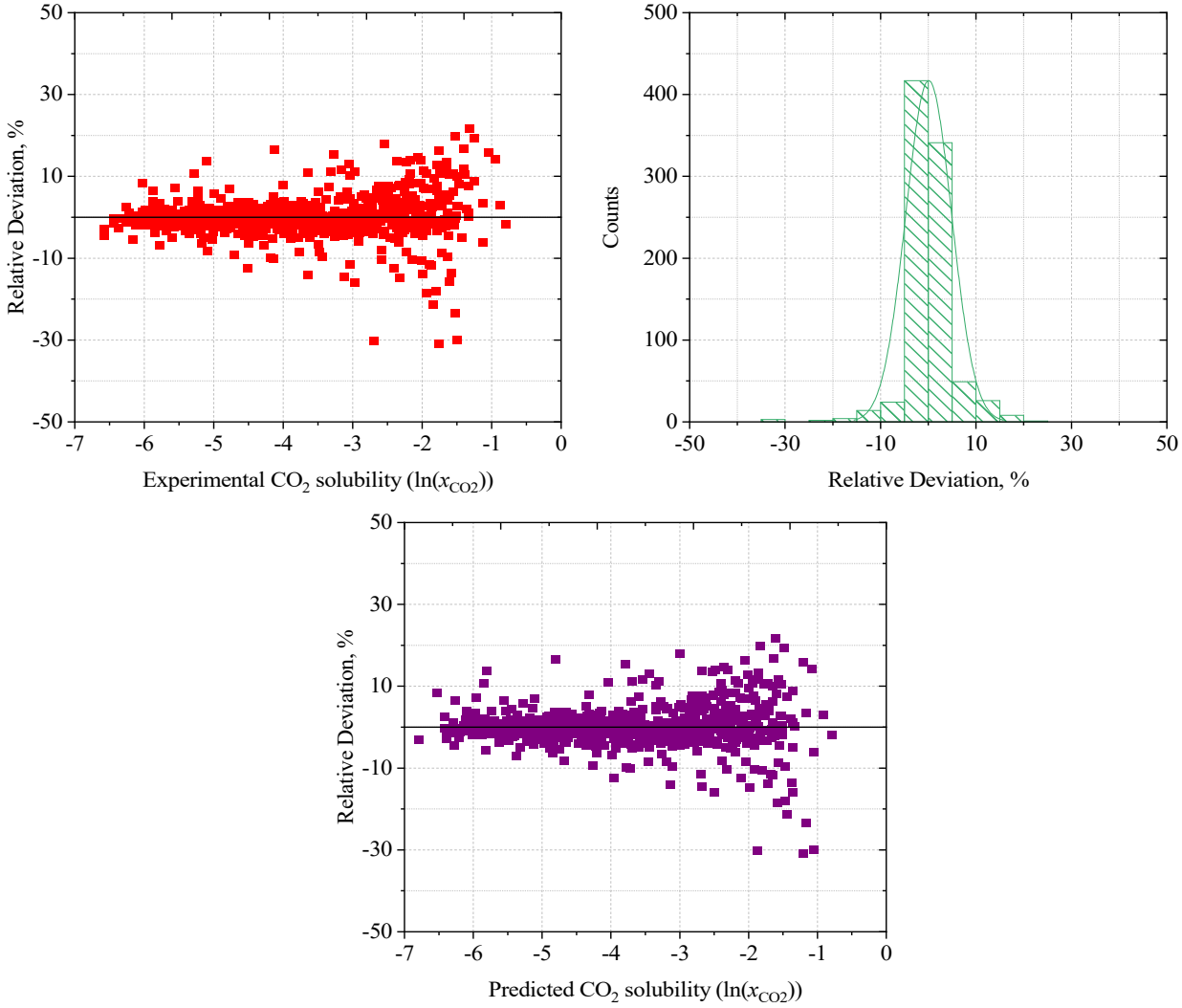

Figure S2. Statistical residual analysis of predicted CO2 solubility data for testing set

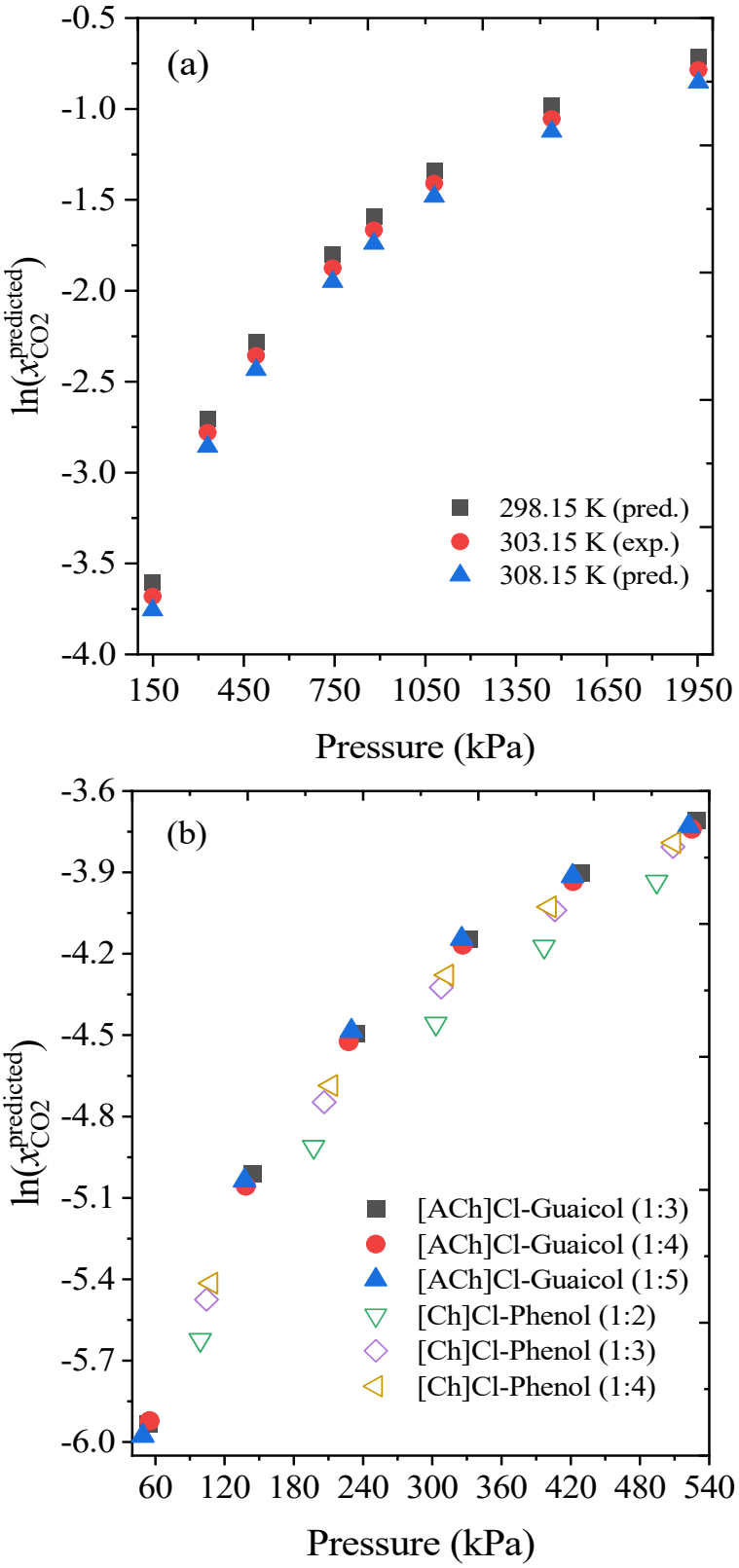

Figure S3. ANN-based machine learning predicted CO_2 solubility in (a) [ATTP]Br-TEG (1:10) DES at different temperatures and (b) effect of molar ratio of DESs.

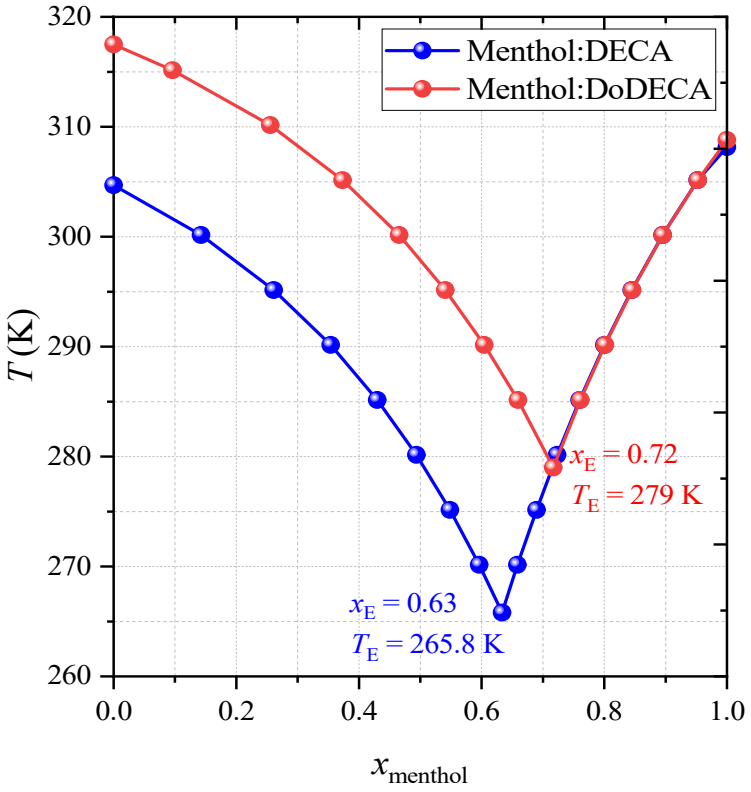

Figure S4. COSMO-RS predicted eutectic point composition of DES composed of menthol with decanoic acid/dodecanoic acid.

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