

Dataset 2. Dataset for screening solvents

w%	Solvent Name	Boiling Point /°C	Melting point /°C	Dielectric constant	Dipole moment /(10^{-30} C · m)	Viscosity /(mPa s)	Surface tension /(mN m ⁻¹)	Heat of evaporation /(kJ mol ⁻¹)	Heat capacity /[kJ/(kg · K)]	Density /(g ml ⁻¹)	Soaking time /minutes	Volatilization temperature /°C	Volatilization time /h	Current Density /(mA cm ⁻²)	Pred. CE /%	Pred. VE /%	Pred. EE /%
15	methanol	64.5	-97.5	31.2	5.55	0.59	22.55	35.32	2.51	0.7913	30	25	24	80	98.88	90.46	89.45
15	n-propanol	97.2	-126.2	22.2	5.53	2.26	23.80	40.91	2.45	0.8036	30	25	24	80	98.62	92.71	91.43
15	n-butanol	117.7	-89.8	17.1	5.60	2.95	24.60	43.86	2.33	0.8097	30	25	24	80	98.23	93.27	91.62
15	IPA	107.9	-108.0	17.95	5.97	4.00	23.00	42.56	2.39	0.8020	30	25	24	80	97.90	93.44	91.47
15	n-Pentanol	138.0	-78.2	13.9	6.00	3.31	25.60	44.51	2.98	0.8144	30	25	24	80	98.13	93.72	91.96
15	ethanol	78.3	-114.5	25.7	5.60	1.06	22.10	38.59	2.42	0.7893	30	25	24	40	98.48	94.93	93.49
15	ethanol	78.3	-114.5	25.7	5.60	1.06	22.10	38.59	2.42	0.7893	30	25	24	50	98.59	94.09	92.77
15	ethanol	78.3	-114.5	25.7	5.60	1.06	22.10	38.59	2.42	0.7893	30	25	24	60	98.70	93.26	92.04
15	ethanol	78.3	-114.5	25.7	5.60	1.06	22.10	38.59	2.42	0.7893	30	25	24	70	98.81	92.42	91.32
15	ethanol	78.3	-114.5	25.7	5.60	1.06	22.10	38.59	2.42	0.7893	30	25	24	80	98.92	91.59	90.60
15	ethanol	78.3	-114.5	25.7	5.60	1.06	22.10	38.59	2.42	0.7893	30	25	24	90	99.03	90.76	89.88
15	ethanol	78.3	-114.5	25.7	5.60	1.06	22.10	38.59	2.42	0.7893	30	25	24	100	99.15	89.92	89.15
15	ethanol	78.3	-114.5	25.7	5.60	1.06	22.10	38.59	2.42	0.7893	30	25	24	110	99.26	89.09	88.43
15	ethanol	78.3	-114.5	25.7	5.60	1.06	22.10	38.59	2.42	0.7893	30	25	24	120	99.38	88.25	87.71
15	ethanol	78.3	-114.5	25.7	5.60	1.06	22.10	38.59	2.42	0.7893	30	25	24	130	99.51	87.42	86.99
15	ethanol	78.3	-114.5	25.7	5.60	1.06	22.10	38.59	2.42	0.7893	30	25	24	140	99.63	86.58	86.27
15	ethanol	78.3	-114.5	25.7	5.60	1.06	22.10	38.59	2.42	0.7893	30	25	24	150	99.76	85.75	85.54
15	ethanol	78.3	-114.5	25.7	5.60	1.06	22.10	38.59	2.42	0.7893	30	25	24	160	99.89	84.92	84.82
15	ethanol	78.3	-114.5	25.7	5.60	1.06	22.10	38.59	2.42	0.7893	30	25	24	170	100.02	84.08	84.10
15	ethanol	78.3	-114.5	25.7	5.60	1.06	22.10	38.59	2.42	0.7893	30	25	24	180	100.16	83.25	83.38
15	ethanol	78.3	-114.5	25.7	5.60	1.06	22.10	38.59	2.42	0.7893	30	25	24	190	100.29	82.41	82.65
15	ethanol	78.3	-114.5	25.7	5.60	1.06	22.10	38.59	2.42	0.7893	30	25	24	200	100.43	81.58	81.93
15	IPA	82.4	-89.5	18.3	5.60	2.43	21.70	40.06	2.55	0.7863	30	25	24	40	97.78	95.27	93.15
15	IPA	82.4	-89.5	18.3	5.60	2.43	21.70	40.06	2.55	0.7863	30	25	24	50	97.88	94.43	92.43
15	IPA	82.4	-89.5	18.3	5.60	2.43	21.70	40.06	2.55	0.7863	30	25	24	60	97.98	93.60	91.71
15	IPA	82.4	-89.5	18.3	5.60	2.43	21.70	40.06	2.55	0.7863	30	25	24	70	98.08	92.76	90.99
15	IPA	82.4	-89.5	18.3	5.60	2.43	21.70	40.06	2.55	0.7863	30	25	24	80	98.19	91.93	90.26
15	IPA	82.4	-89.5	18.3	5.60	2.43	21.70	40.06	2.55	0.7863	30	25	24	90	98.29	91.09	89.54
15	IPA	82.4	-89.5	18.3	5.60	2.43	21.70	40.06	2.55	0.7863	30	25	24	100	98.40	90.26	88.82
15	IPA	82.4	-89.5	18.3	5.60	2.43	21.70	40.06	2.55	0.7863	30	25	24	110	98.51	89.43	88.10
15	IPA	82.4	-89.5	18.3	5.60	2.43	21.70	40.06	2.55	0.7863	30	25	24	120	98.63	88.59	87.37
15	IPA	82.4	-89.5	18.3	5.60	2.43	21.70	40.06	2.55	0.7863	30	25	24	130	98.74	87.76	86.65
15	IPA	82.4	-89.5	18.3	5.60	2.43	21.70	40.06	2.55	0.7863	30	25	24	140	98.86	86.92	85.93
15	IPA	82.4	-89.5	18.3	5.60	2.43	21.70	40.06	2.55	0.7863	30	25	24	150	98.98	86.09	85.21
15	IPA	82.4	-89.5	18.3	5.60	2.43	21.70	40.06	2.55	0.7863	30	25	24	160	99.10	85.25	84.49
15	IPA	82.4	-89.5	18.3	5.60	2.43	21.70	40.06	2.55	0.7863	30	25	24	170	99.22	84.42	83.76
15	IPA	82.4	-89.5	18.3	5.60	2.43	21.70	40.06	2.55	0.7863	30	25	24	180	99.35	83.59	83.04
15	IPA	82.4	-89.5	18.3	5.60	2.43	21.70	40.06	2.55	0.7863	30	25	24	190	99.48	82.75	82.32
15	IPA	82.4	-89.5	18.3	5.60	2.43	21.70	40.06	2.55	0.7863	30	25	24	200	99.61	81.92	81.60
15	2-methylpentane	60.3	-153.7	1.88	0.27	0.30	17.31	37.79	2.24	0.6540	30	25	24	40	97.96	94.10	92.18
15	2-methylpentane	60.3	-153.7	1.88	0.27	0.30	17.31	37.79	2.24	0.6540	30	25	24	50	98.06	93.27	91.46
15	2-methylpentane	60.3	-153.7	1.88	0.27	0.30	17.31	37.79	2.24	0.6540	30	25	24	60	98.16	92.43	90.73
15	2-methylpentane	60.3	-153.7	1.88	0.27	0.30	17.31	37.79	2.24	0.6540	30	25	24	70	98.27	91.60	90.01

w%	Solvent Name	Boiling Point /°C	Melting point /°C	Dielectric constant	Dipole moment /(10^{-30} C · m)	Viscosity /(mPa s)	Surface tension /(mN m^{-1})	Heat of evaporation /(kJ mol^{-1})	Heat capacity /($\text{kJ}/(\text{kg} \cdot \text{K})$)	Density /(g ml^{-1})	Soaking time /minutes	Volatilization temperature /°C	Volatilization time /h	Current Density /(mA cm^{-2})	Pred. CE /%	Pred. VE /%	Pred. EE /%
15	2-methylpentane	60.3	-153.7	1.88	0.27	0.30	17.31	37.79	2.24	0.6540	30	25	24	80	98.37	90.76	89.29
15	2-methylpentane	60.3	-153.7	1.88	0.27	0.30	17.31	37.79	2.24	0.6540	30	25	24	90	98.48	89.93	88.57
15	2-methylpentane	60.3	-153.7	1.88	0.27	0.30	17.31	37.79	2.24	0.6540	30	25	24	100	98.60	89.10	87.84
15	2-methylpentane	60.3	-153.7	1.88	0.27	0.30	17.31	37.79	2.24	0.6540	30	25	24	110	98.71	88.26	87.12
15	2-methylpentane	60.3	-153.7	1.88	0.27	0.30	17.31	37.79	2.24	0.6540	30	25	24	120	98.83	87.43	86.40
15	2-methylpentane	60.3	-153.7	1.88	0.27	0.30	17.31	37.79	2.24	0.6540	30	25	24	130	98.94	86.59	85.68
15	2-methylpentane	60.3	-153.7	1.88	0.27	0.30	17.31	37.79	2.24	0.6540	30	25	24	140	99.06	85.76	84.96
15	2-methylpentane	60.3	-153.7	1.88	0.27	0.30	17.31	37.79	2.24	0.6540	30	25	24	150	99.19	84.92	84.23
15	2-methylpentane	60.3	-153.7	1.88	0.27	0.30	17.31	37.79	2.24	0.6540	30	25	24	160	99.31	84.09	83.51
15	2-methylpentane	60.3	-153.7	1.88	0.27	0.30	17.31	37.79	2.24	0.6540	30	25	24	170	99.44	83.26	82.79
15	2-methylpentane	60.3	-153.7	1.88	0.27	0.30	17.31	37.79	2.24	0.6540	30	25	24	180	99.57	82.42	82.07
15	2-methylpentane	60.3	-153.7	1.88	0.27	0.30	17.31	37.79	2.24	0.6540	30	25	24	190	99.70	81.59	81.34
15	2-methylpentane	60.3	-153.7	1.88	0.27	0.30	17.31	37.79	2.24	0.6540	30	25	24	200	99.84	80.75	80.62
15	Heptane	98.4	-90.6	1.924	0.00	0.41	19.60	38.02	2.23	0.6840	30	25	24	40	97.60	93.95	91.70
15	Heptane	98.4	-90.6	1.924	0.00	0.41	19.60	38.02	2.23	0.6840	30	25	24	50	97.70	93.12	90.98
15	Heptane	98.4	-90.6	1.924	0.00	0.41	19.60	38.02	2.23	0.6840	30	25	24	60	97.80	92.29	90.25
15	Heptane	98.4	-90.6	1.924	0.00	0.41	19.60	38.02	2.23	0.6840	30	25	24	70	97.90	91.45	89.53
15	Heptane	98.4	-90.6	1.924	0.00	0.41	19.60	38.02	2.23	0.6840	30	25	24	80	98.01	90.62	88.81
15	Heptane	98.4	-90.6	1.924	0.00	0.41	19.60	38.02	2.23	0.6840	30	25	24	90	98.11	89.78	88.09
15	Heptane	98.4	-90.6	1.924	0.00	0.41	19.60	38.02	2.23	0.6840	30	25	24	100	98.22	88.95	87.37
15	Heptane	98.4	-90.6	1.924	0.00	0.41	19.60	38.02	2.23	0.6840	30	25	24	110	98.33	88.11	86.64
15	Heptane	98.4	-90.6	1.924	0.00	0.41	19.60	38.02	2.23	0.6840	30	25	24	120	98.44	87.28	85.92
15	Heptane	98.4	-90.6	1.924	0.00	0.41	19.60	38.02	2.23	0.6840	30	25	24	130	98.56	86.45	85.20
15	Heptane	98.4	-90.6	1.924	0.00	0.41	19.60	38.02	2.23	0.6840	30	25	24	140	98.67	85.61	84.48
15	Heptane	98.4	-90.6	1.924	0.00	0.41	19.60	38.02	2.23	0.6840	30	25	24	150	98.79	84.78	83.75
15	Heptane	98.4	-90.6	1.924	0.00	0.41	19.60	38.02	2.23	0.6840	30	25	24	160	98.92	83.94	83.03
15	Heptane	98.4	-90.6	1.924	0.00	0.41	19.60	38.02	2.23	0.6840	30	25	24	170	99.04	83.11	82.31
15	Heptane	98.4	-90.6	1.924	0.00	0.41	19.60	38.02	2.23	0.6840	30	25	24	180	99.17	82.27	81.59
15	Heptane	98.4	-90.6	1.924	0.00	0.41	19.60	38.02	2.23	0.6840	30	25	24	190	99.30	81.44	80.87
15	Heptane	98.4	-90.6	1.924	0.00	0.41	19.60	38.02	2.23	0.6840	30	25	24	200	99.43	80.61	80.14
15	N-octane	125.7	-56.8	1.948	0.00	0.55	21.76	41.51	2.23	0.7025	30	25	24	40	97.54	94.59	92.26
15	N-octane	125.7	-56.8	1.948	0.00	0.55	21.76	41.51	2.23	0.7025	30	25	24	50	97.63	93.76	91.54
15	N-octane	125.7	-56.8	1.948	0.00	0.55	21.76	41.51	2.23	0.7025	30	25	24	60	97.73	92.92	90.82
15	N-octane	125.7	-56.8	1.948	0.00	0.55	21.76	41.51	2.23	0.7025	30	25	24	70	97.83	92.09	90.09
15	N-octane	125.7	-56.8	1.948	0.00	0.55	21.76	41.51	2.23	0.7025	30	25	24	80	97.94	91.25	89.37
15	N-octane	125.7	-56.8	1.948	0.00	0.55	21.76	41.51	2.23	0.7025	30	25	24	90	98.04	90.42	88.65
15	N-octane	125.7	-56.8	1.948	0.00	0.55	21.76	41.51	2.23	0.7025	30	25	24	100	98.15	89.58	87.93
15	N-octane	125.7	-56.8	1.948	0.00	0.55	21.76	41.51	2.23	0.7025	30	25	24	110	98.26	88.75	87.20
15	N-octane	125.7	-56.8	1.948	0.00	0.55	21.76	41.51	2.23	0.7025	30	25	24	120	98.37	87.92	86.48
15	N-octane	125.7	-56.8	1.948	0.00	0.55	21.76	41.51	2.23	0.7025	30	25	24	130	98.48	87.08	85.76
15	N-octane	125.7	-56.8	1.948	0.00	0.55	21.76	41.51	2.23	0.7025	30	25	24	140	98.60	86.25	85.04
15	N-octane	125.7	-56.8	1.948	0.00	0.55	21.76	41.51	2.23	0.7025	30	25	24	150	98.72	85.41	84.32
15	N-octane	125.7	-56.8	1.948	0.00	0.55	21.76	41.51	2.23	0.7025	30	25	24	160	98.84	84.58	83.59
15	N-octane	125.7	-56.8	1.948	0.00	0.55	21.76	41.51	2.23	0.7025	30	25	24	170	98.96	83.74	82.87

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15	N-octane	125.7	-56.8	1.948	0.00	0.55	21.76	41.51	2.23	0.7025	30	25	24	180	99.08	82.91	82.15
15	N-octane	125.7	-56.8	1.948	0.00	0.55	21.76	41.51	2.23	0.7025	30	25	24	190	99.21	82.08	81.43
15	N-octane	125.7	-56.8	1.948	0.00	0.55	21.76	41.51	2.23	0.7025	30	25	24	200	99.34	81.24	80.70
15	Isopropyl ether	68.5	-85.9	4.48	4.00	0.33	19.40	29.17	2.20	0.7244	30	25	24	40	97.81	92.45	90.42
15	Isopropyl ether	68.5	-85.9	4.48	4.00	0.33	19.40	29.17	2.20	0.7244	30	25	24	50	97.91	91.62	89.70
15	Isopropyl ether	68.5	-85.9	4.48	4.00	0.33	19.40	29.17	2.20	0.7244	30	25	24	60	98.01	90.78	88.98
15	Isopropyl ether	68.5	-85.9	4.48	4.00	0.33	19.40	29.17	2.20	0.7244	30	25	24	70	98.12	89.95	88.26
15	Isopropyl ether	68.5	-85.9	4.48	4.00	0.33	19.40	29.17	2.20	0.7244	30	25	24	80	98.23	89.11	87.54
15	Isopropyl ether	68.5	-85.9	4.48	4.00	0.33	19.40	29.17	2.20	0.7244	30	25	24	90	98.34	88.28	86.81
15	Isopropyl ether	68.5	-85.9	4.48	4.00	0.33	19.40	29.17	2.20	0.7244	30	25	24	100	98.45	87.45	86.09
15	Isopropyl ether	68.5	-85.9	4.48	4.00	0.33	19.40	29.17	2.20	0.7244	30	25	24	110	98.57	86.61	85.37
15	Isopropyl ether	68.5	-85.9	4.48	4.00	0.33	19.40	29.17	2.20	0.7244	30	25	24	120	98.68	85.78	84.65
15	Isopropyl ether	68.5	-85.9	4.48	4.00	0.33	19.40	29.17	2.20	0.7244	30	25	24	130	98.80	84.94	83.92
15	Isopropyl ether	68.5	-85.9	4.48	4.00	0.33	19.40	29.17	2.20	0.7244	30	25	24	140	98.92	84.11	83.20
15	Isopropyl ether	68.5	-85.9	4.48	4.00	0.33	19.40	29.17	2.20	0.7244	30	25	24	150	99.05	83.27	82.48
15	Isopropyl ether	68.5	-85.9	4.48	4.00	0.33	19.40	29.17	2.20	0.7244	30	25	24	160	99.17	82.44	81.76
15	Isopropyl ether	68.5	-85.9	4.48	4.00	0.33	19.40	29.17	2.20	0.7244	30	25	24	170	99.30	81.60	81.04
15	Isopropyl ether	68.5	-85.9	4.48	4.00	0.33	19.40	29.17	2.20	0.7244	30	25	24	180	99.43	80.77	80.31
15	Isopropyl ether	68.5	-85.9	4.48	4.00	0.33	19.40	29.17	2.20	0.7244	30	25	24	190	99.57	79.94	79.59
15	Isopropyl ether	68.5	-85.9	4.48	4.00	0.33	19.40	29.17	2.20	0.7244	30	25	24	200	99.71	79.10	78.87
15	hexane	68.7	-95.3	1.89	0.27	0.31	17.90	33.12	2.28	0.6590	30	25	24	40	97.42	92.71	90.32
15	hexane	68.7	-95.3	1.89	0.27	0.31	17.90	33.12	2.28	0.6590	30	25	24	50	97.52	91.88	89.60
15	hexane	68.7	-95.3	1.89	0.27	0.31	17.90	33.12	2.28	0.6590	30	25	24	60	97.62	91.05	88.88
15	hexane	68.7	-95.3	1.89	0.27	0.31	17.90	33.12	2.28	0.6590	30	25	24	70	97.72	90.21	88.16
15	hexane	68.7	-95.3	1.89	0.27	0.31	17.90	33.12	2.28	0.6590	30	25	24	80	97.83	89.38	87.43
15	hexane	68.7	-95.3	1.89	0.27	0.31	17.90	33.12	2.28	0.6590	30	25	24	90	97.93	88.54	86.71
15	hexane	68.7	-95.3	1.89	0.27	0.31	17.90	33.12	2.28	0.6590	30	25	24	100	98.04	87.71	85.99
15	hexane	68.7	-95.3	1.89	0.27	0.31	17.90	33.12	2.28	0.6590	30	25	24	110	98.15	86.87	85.27
15	hexane	68.7	-95.3	1.89	0.27	0.31	17.90	33.12	2.28	0.6590	30	25	24	120	98.26	86.04	84.54
15	hexane	68.7	-95.3	1.89	0.27	0.31	17.90	33.12	2.28	0.6590	30	25	24	130	98.38	85.21	83.82
15	hexane	68.7	-95.3	1.89	0.27	0.31	17.90	33.12	2.28	0.6590	30	25	24	140	98.49	84.37	83.10
15	hexane	68.7	-95.3	1.89	0.27	0.31	17.90	33.12	2.28	0.6590	30	25	24	150	98.61	83.54	82.38
15	hexane	68.7	-95.3	1.89	0.27	0.31	17.90	33.12	2.28	0.6590	30	25	24	160	98.73	82.70	81.66
15	hexane	68.7	-95.3	1.89	0.27	0.31	17.90	33.12	2.28	0.6590	30	25	24	170	98.86	81.87	80.93
15	hexane	68.7	-95.3	1.89	0.27	0.31	17.90	33.12	2.28	0.6590	30	25	24	180	98.99	81.03	80.21
15	hexane	68.7	-95.3	1.89	0.27	0.31	17.90	33.12	2.28	0.6590	30	25	24	190	99.11	80.20	79.49
15	hexane	68.7	-95.3	1.89	0.27	0.31	17.90	33.12	2.28	0.6590	30	25	24	200	99.25	79.37	78.77
15	acetone	56.1	-94.7	20.7	8.97	0.32	23.70	29.11	1.28	0.7906	30	25	24	40	98.68	92.99	91.77
15	acetone	56.1	-94.7	20.7	8.97	0.32	23.70	29.11	1.28	0.7906	30	25	24	50	98.79	92.16	91.05
15	acetone	56.1	-94.7	20.7	8.97	0.32	23.70	29.11	1.28	0.7906	30	25	24	60	98.90	91.33	90.32
15	acetone	56.1	-94.7	20.7	8.97	0.32	23.70	29.11	1.28	0.7906	30	25	24	70	99.02	90.49	89.60
15	acetone	56.1	-94.7	20.7	8.97	0.32	23.70	29.11	1.28	0.7906	30	25	24	80	99.13	89.66	88.88
15	acetone	56.1	-94.7	20.7	8.97	0.32	23.70	29.11	1.28	0.7906	30	25	24	90	99.25	88.82	88.16
15	acetone	56.1	-94.7	20.7	8.97	0.32	23.70	29.11	1.28	0.7906	30	25	24	100	99.37	87.99	87.43

w%	Solvent Name	Boiling Point /°C	Melting point /°C	Dielectric constant	Dipole moment /(10^{-30} C · m)	Viscosity /(mPa s)	Surface tension /(mN m^{-1})	Heat of evaporation /(kJ mol^{-1})	Heat capacity /($\text{kJ}/(\text{kg} \cdot \text{K})$)	Density /(g ml^{-1})	Soaking time /minutes	Volatilization temperature /°C	Volatilization time /h	Current Density /(mA cm^{-2})	Pred. CE /%	Pred. VE /%	Pred. EE /%
15	acetone	56.1	-94.7	20.7	8.97	0.32	23.70	29.11	1.28	0.7906	30	25	24	110	99.49	87.15	86.71
15	acetone	56.1	-94.7	20.7	8.97	0.32	23.70	29.11	1.28	0.7906	30	25	24	120	99.62	86.32	85.99
15	acetone	56.1	-94.7	20.7	8.97	0.32	23.70	29.11	1.28	0.7906	30	25	24	130	99.75	85.49	85.27
15	acetone	56.1	-94.7	20.7	8.97	0.32	23.70	29.11	1.28	0.7906	30	25	24	140	99.88	84.65	84.55
15	acetone	56.1	-94.7	20.7	8.97	0.32	23.70	29.11	1.28	0.7906	30	25	24	150	100.01	83.82	83.82
15	acetone	56.1	-94.7	20.7	8.97	0.32	23.70	29.11	1.28	0.7906	30	25	24	160	100.14	82.98	83.10
15	acetone	56.1	-94.7	20.7	8.97	0.32	23.70	29.11	1.28	0.7906	30	25	24	170	100.28	82.15	82.38
15	acetone	56.1	-94.7	20.7	8.97	0.32	23.70	29.11	1.28	0.7906	30	25	24	180	100.42	81.31	81.66
15	acetone	56.1	-94.7	20.7	8.97	0.32	23.70	29.11	1.28	0.7906	30	25	24	190	100.57	80.48	80.93
15	acetone	56.1	-94.7	20.7	8.97	0.32	23.70	29.11	1.28	0.7906	30	25	24	200	100.71	79.65	80.21
15	n-propanol	97.2	-126.2	22.2	5.53	2.26	23.80	40.91	2.45	0.8036	30	25	24	40	98.20	96.05	94.32
15	n-propanol	97.2	-126.2	22.2	5.53	2.26	23.80	40.91	2.45	0.8036	30	25	24	50	98.30	95.22	93.60
15	n-propanol	97.2	-126.2	22.2	5.53	2.26	23.80	40.91	2.45	0.8036	30	25	24	60	98.40	94.38	92.88
15	n-propanol	97.2	-126.2	22.2	5.53	2.26	23.80	40.91	2.45	0.8036	30	25	24	70	98.51	93.55	92.15
15	n-propanol	97.2	-126.2	22.2	5.53	2.26	23.80	40.91	2.45	0.8036	30	25	24	80	98.62	92.71	91.43
15	n-propanol	97.2	-126.2	22.2	5.53	2.26	23.80	40.91	2.45	0.8036	30	25	24	90	98.73	91.88	90.71
15	n-propanol	97.2	-126.2	22.2	5.53	2.26	23.80	40.91	2.45	0.8036	30	25	24	100	98.84	91.05	89.99
15	n-propanol	97.2	-126.2	22.2	5.53	2.26	23.80	40.91	2.45	0.8036	30	25	24	110	98.95	90.21	89.26
15	n-propanol	97.2	-126.2	22.2	5.53	2.26	23.80	40.91	2.45	0.8036	30	25	24	120	99.07	89.38	88.54
15	n-propanol	97.2	-126.2	22.2	5.53	2.26	23.80	40.91	2.45	0.8036	30	25	24	130	99.18	88.54	87.82
15	n-propanol	97.2	-126.2	22.2	5.53	2.26	23.80	40.91	2.45	0.8036	30	25	24	140	99.30	87.71	87.10
15	n-propanol	97.2	-126.2	22.2	5.53	2.26	23.80	40.91	2.45	0.8036	30	25	24	150	99.43	86.87	86.38
15	n-propanol	97.2	-126.2	22.2	5.53	2.26	23.80	40.91	2.45	0.8036	30	25	24	160	99.55	86.04	85.65
15	n-propanol	97.2	-126.2	22.2	5.53	2.26	23.80	40.91	2.45	0.8036	30	25	24	170	99.68	85.21	84.93
15	n-propanol	97.2	-126.2	22.2	5.53	2.26	23.80	40.91	2.45	0.8036	30	25	24	180	99.81	84.37	84.21
15	n-propanol	97.2	-126.2	22.2	5.53	2.26	23.80	40.91	2.45	0.8036	30	25	24	190	99.94	83.54	83.49
15	n-propanol	97.2	-126.2	22.2	5.53	2.26	23.80	40.91	2.45	0.8036	30	25	24	200	100.07	82.70	82.76
15	n-butanol	117.7	-89.8	17.1	5.60	2.95	24.60	43.86	2.33	0.8097	30	25	24	40	97.82	96.61	94.50
15	n-butanol	117.7	-89.8	17.1	5.60	2.95	24.60	43.86	2.33	0.8097	30	25	24	50	97.92	95.77	93.78
15	n-butanol	117.7	-89.8	17.1	5.60	2.95	24.60	43.86	2.33	0.8097	30	25	24	60	98.02	94.94	93.06
15	n-butanol	117.7	-89.8	17.1	5.60	2.95	24.60	43.86	2.33	0.8097	30	25	24	70	98.12	94.11	92.34
15	n-butanol	117.7	-89.8	17.1	5.60	2.95	24.60	43.86	2.33	0.8097	30	25	24	80	98.23	93.27	91.62
15	n-butanol	117.7	-89.8	17.1	5.60	2.95	24.60	43.86	2.33	0.8097	30	25	24	90	98.33	92.44	90.89
15	n-butanol	117.7	-89.8	17.1	5.60	2.95	24.60	43.86	2.33	0.8097	30	25	24	100	98.44	91.60	90.17
15	n-butanol	117.7	-89.8	17.1	5.60	2.95	24.60	43.86	2.33	0.8097	30	25	24	110	98.55	90.77	89.45
15	n-butanol	117.7	-89.8	17.1	5.60	2.95	24.60	43.86	2.33	0.8097	30	25	24	120	98.66	89.93	88.73
15	n-butanol	117.7	-89.8	17.1	5.60	2.95	24.60	43.86	2.33	0.8097	30	25	24	130	98.77	89.10	88.00
15	n-butanol	117.7	-89.8	17.1	5.60	2.95	24.60	43.86	2.33	0.8097	30	25	24	140	98.89	88.26	87.28
15	n-butanol	117.7	-89.8	17.1	5.60	2.95	24.60	43.86	2.33	0.8097	30	25	24	150	99.01	87.43	86.56
15	n-butanol	117.7	-89.8	17.1	5.60	2.95	24.60	43.86	2.33	0.8097	30	25	24	160	99.12	86.60	85.84
15	n-butanol	117.7	-89.8	17.1	5.60	2.95	24.60	43.86	2.33	0.8097	30	25	24	170	99.25	85.76	85.12
15	n-butanol	117.7	-89.8	17.1	5.60	2.95	24.60	43.86	2.33	0.8097	30	25	24	180	99.37	84.93	84.39
15	n-butanol	117.7	-89.8	17.1	5.60	2.95	24.60	43.86	2.33	0.8097	30	25	24	190	99.50	84.09	83.67
15	n-butanol	117.7	-89.8	17.1	5.60	2.95	24.60	43.86	2.33	0.8097	30	25	24	200	99.63	83.26	82.95

w%	Solvent Name	Boiling Point /°C	Melting point /°C	Dielectric constant	Dipole moment /(10^{-30} C · m)	Viscosity /(mPa s)	Surface tension /(mN m^{-1})	Heat of evaporation /(kJ mol^{-1})	Heat capacity /($\text{kJ}/(\text{kg} \cdot \text{K})$)	Density /(g ml^{-1})	Soaking time /minutes	Volatilization temperature /°C	Volatilization time /h	Current Density /(mA cm^{-2})	Pred. CE /%	Pred. VE /%	Pred. EE /%
15	IPA	107.9	-108.0	17.95	5.97	4.00	23.00	42.56	2.39	0.8020	30	25	24	40	97.51	96.77	94.36
15	IPA	107.9	-108.0	17.95	5.97	4.00	23.00	42.56	2.39	0.8020	30	25	24	50	97.60	95.94	93.64
15	IPA	107.9	-108.0	17.95	5.97	4.00	23.00	42.56	2.39	0.8020	30	25	24	60	97.70	95.11	92.92
15	IPA	107.9	-108.0	17.95	5.97	4.00	23.00	42.56	2.39	0.8020	30	25	24	70	97.80	94.27	92.19
15	IPA	107.9	-108.0	17.95	5.97	4.00	23.00	42.56	2.39	0.8020	30	25	24	80	97.90	93.44	91.47
15	IPA	107.9	-108.0	17.95	5.97	4.00	23.00	42.56	2.39	0.8020	30	25	24	90	98.00	92.60	90.75
15	IPA	107.9	-108.0	17.95	5.97	4.00	23.00	42.56	2.39	0.8020	30	25	24	100	98.10	91.77	90.03
15	IPA	107.9	-108.0	17.95	5.97	4.00	23.00	42.56	2.39	0.8020	30	25	24	110	98.21	90.93	89.31
15	IPA	107.9	-108.0	17.95	5.97	4.00	23.00	42.56	2.39	0.8020	30	25	24	120	98.32	90.10	88.58
15	IPA	107.9	-108.0	17.95	5.97	4.00	23.00	42.56	2.39	0.8020	30	25	24	130	98.43	89.27	87.86
15	IPA	107.9	-108.0	17.95	5.97	4.00	23.00	42.56	2.39	0.8020	30	25	24	140	98.54	88.43	87.14
15	IPA	107.9	-108.0	17.95	5.97	4.00	23.00	42.56	2.39	0.8020	30	25	24	150	98.65	87.60	86.42
15	IPA	107.9	-108.0	17.95	5.97	4.00	23.00	42.56	2.39	0.8020	30	25	24	160	98.77	86.76	85.69
15	IPA	107.9	-108.0	17.95	5.97	4.00	23.00	42.56	2.39	0.8020	30	25	24	170	98.89	85.93	84.97
15	IPA	107.9	-108.0	17.95	5.97	4.00	23.00	42.56	2.39	0.8020	30	25	24	180	99.01	85.09	84.25
15	IPA	107.9	-108.0	17.95	5.97	4.00	23.00	42.56	2.39	0.8020	30	25	24	190	99.13	84.26	83.53
15	IPA	107.9	-108.0	17.95	5.97	4.00	23.00	42.56	2.39	0.8020	30	25	24	200	99.26	83.42	82.81
15	n-Pentanol	138.0	-78.2	13.9	6.00	3.31	25.60	44.51	2.98	0.8144	30	25	24	40	97.73	97.05	94.85
15	n-Pentanol	138.0	-78.2	13.9	6.00	3.31	25.60	44.51	2.98	0.8144	30	25	24	50	97.83	96.22	94.13
15	n-Pentanol	138.0	-78.2	13.9	6.00	3.31	25.60	44.51	2.98	0.8144	30	25	24	60	97.93	95.39	93.41
15	n-Pentanol	138.0	-78.2	13.9	6.00	3.31	25.60	44.51	2.98	0.8144	30	25	24	70	98.03	94.55	92.68
15	n-Pentanol	138.0	-78.2	13.9	6.00	3.31	25.60	44.51	2.98	0.8144	30	25	24	80	98.13	93.72	91.96
15	n-Pentanol	138.0	-78.2	13.9	6.00	3.31	25.60	44.51	2.98	0.8144	30	25	24	90	98.23	92.88	91.24
15	n-Pentanol	138.0	-78.2	13.9	6.00	3.31	25.60	44.51	2.98	0.8144	30	25	24	100	98.34	92.05	90.52
15	n-Pentanol	138.0	-78.2	13.9	6.00	3.31	25.60	44.51	2.98	0.8144	30	25	24	110	98.44	91.21	89.80
15	n-Pentanol	138.0	-78.2	13.9	6.00	3.31	25.60	44.51	2.98	0.8144	30	25	24	120	98.55	90.38	89.07
15	n-Pentanol	138.0	-78.2	13.9	6.00	3.31	25.60	44.51	2.98	0.8144	30	25	24	130	98.67	89.54	88.35
15	n-Pentanol	138.0	-78.2	13.9	6.00	3.31	25.60	44.51	2.98	0.8144	30	25	24	140	98.78	88.71	87.63
15	n-Pentanol	138.0	-78.2	13.9	6.00	3.31	25.60	44.51	2.98	0.8144	30	25	24	150	98.90	87.88	86.91
15	n-Pentanol	138.0	-78.2	13.9	6.00	3.31	25.60	44.51	2.98	0.8144	30	25	24	160	99.01	87.04	86.18
15	n-Pentanol	138.0	-78.2	13.9	6.00	3.31	25.60	44.51	2.98	0.8144	30	25	24	170	99.13	86.21	85.46
15	n-Pentanol	138.0	-78.2	13.9	6.00	3.31	25.60	44.51	2.98	0.8144	30	25	24	180	99.26	85.37	84.74
15	n-Pentanol	138.0	-78.2	13.9	6.00	3.31	25.60	44.51	2.98	0.8144	30	25	24	190	99.38	84.54	84.02
15	n-Pentanol	138.0	-78.2	13.9	6.00	3.31	25.60	44.51	2.98	0.8144	30	25	24	200	99.51	83.70	83.30