

ID ES	name	RMSE	MAE	ME	R ²	m	
hmz0n 1.15 [0.91, 1.34]	cosmotherm_FINE19	0.38 [0.23, 0.55]	0.31 [0.19, 0.47]	-0.17 [-0.39, 0.03]	0.77 [0.33, 0.94]	0.94 [0.59, 1.16]	0.64 [0.48, 1.04]
gmoq5 0.69 [0.39, 1.02]	Global XGBoost-Based QSPR LogP Predictor	0.39 [0.27, 0.48]	0.34 [0.23, 0.46]	0.01 [-0.22, 0.25]	0.74 [0.38, 0.93]	0.99 [0.65, 1.34]	0.59 [0.48, 1.04]
3vqbi 1.06 [0.84, 1.24]	cosmoquick_TZVP18+ML	0.41 [0.29, 0.52]	0.36 [0.25, 0.48]	-0.08 [-0.28, 0.17]	0.66 [0.25, 0.93]	0.78 [0.48, 1.04]	0.56 [0.48, 1.04]
j8nwc 1.31 [1.06, 1.47]	EC_RISM_wet_P1w+2o	0.47 [0.16, 0.75]	0.31 [0.15, 0.55]	0.07 [-0.16, 0.38]	0.74 [0.28, 0.97]	1.14 [0.82, 1.38]	0.81 [0.65, 1.34]
sq07q 0.60 [0.29, 0.93]	Local XGBoost-Based QSPR LogP Predictor	0.47 [0.34, 0.58]	0.41 [0.28, 0.54]	0.03 [-0.25, 0.31]	0.64 [0.24, 0.88]	0.92 [0.52, 1.33]	0.56 [0.48, 1.04]
dqxk4 1.13 [0.94, 1.31]	LogP_SMD_Solvation_DFT	0.49 [0.33, 0.64]	0.42 [0.26, 0.59]	0.30 [0.07, 0.55]	0.69 [0.34, 0.92]	0.83 [0.49, 1.26]	0.67 [0.48, 1.04]
xxh4i 1.41 [1.35, 1.46]	SM12-Solvation-Trained	0.49 [0.34, 0.62]	0.43 [0.29, 0.58]	0.18 [-0.11, 0.44]	0.54 [0.13, 0.86]	0.60 [0.31, 1.04]	0.51 [0.48, 1.04]
hdpuj 0.91 [0.70, 1.14]	RayLogP-II, a cheminformatic QSPR model predic...	0.49 [0.36, 0.61]	0.44 [0.32, 0.58]	-0.29 [-0.51, -0.05]	0.74 [0.38, 0.95]	1.02 [0.68, 1.37]	0.67 [0.48, 1.04]
vzgyt 1.17 [0.91, 1.39]	rfs-logp	0.50 [0.27, 0.68]	0.38 [0.21, 0.59]	-0.35 [-0.56, -0.15]	0.72 [0.31, 0.95]	0.76 [0.47, 0.98]	0.64 [0.48, 1.04]
ypmr0 1.48 [1.46, 1.49]	SM8-Solvation	0.50 [0.35, 0.63]	0.44 [0.31, 0.58]	0.07 [-0.22, 0.37]	0.61 [0.26, 0.89]	0.93 [0.53, 1.50]	0.64 [0.48, 1.04]
yd6ub 0.73 [0.36, 1.08]	S+logP	0.51 [0.32, 0.65]	0.41 [0.22, 0.58]	0.09 [-0.19, 0.38]	0.63 [0.20, 0.90]	0.99 [0.47, 1.41]	0.53 [0.48, 1.04]
7egyc 1.45 [1.41, 1.48]	SMD-Solvation-Trained	0.52 [0.35, 0.66]	0.44 [0.29, 0.61]	0.27 [0.00, 0.54]	0.57 [0.23, 0.84]	0.50 [0.32, 0.76]	0.45 [0.48, 1.04]
0a7a8 1.01 [0.74, 1.26]	ML Prediction using MD Feature Vector Trained ...	0.53 [0.34, 0.69]	0.43 [0.25, 0.62]	0.32 [0.04, 0.56]	0.62 [0.13, 0.90]	0.74 [0.34, 1.02]	0.45 [0.48, 1.04]
7dhtp 0.50 [0.19, 0.86]	LogP-prediction-method-name	0.54 [0.34, 0.71]	0.44 [0.27, 0.64]	0.06 [-0.27, 0.39]	0.49 [0.07, 0.86]	0.73 [0.26, 1.16]	0.56 [0.48, 1.04]
qyzjx 1.22 [1.01, 1.36]	EC_RISM_dry_P1w+2o	0.54 [0.34, 0.74]	0.46 [0.31, 0.64]	-0.15 [-0.40, 0.20]	0.73 [0.33, 0.97]	1.22 [0.90, 1.47]	0.78 [0.65, 1.34]
w6jta 1.12 [0.85, 1.36]	ML Prediction using MD Feature Vector Trained ...	0.56 [0.34, 0.74]	0.46 [0.28, 0.65]	0.32 [0.07, 0.58]	0.53 [0.12, 0.90]	0.62 [0.36, 0.83]	0.51 [0.48, 1.04]
5krdi 0.37 [0.09, 0.66]	ZINC15 versus PM3	0.60 [0.39, 0.82]	0.51 [0.32, 0.72]	-0.30 [-0.62, 0.00]	0.63 [0.25, 0.91]	1.03 [0.58, 1.50]	0.60 [0.48, 1.04]
ji2zm 1.43 [1.39, 1.47]	SM8-Solvation-Trained	0.60 [0.42, 0.75]	0.53 [0.37, 0.69]	0.45 [0.22, 0.67]	0.66 [0.31, 0.89]	0.66 [0.43, 0.99]	0.51 [0.48, 1.04]
gnxuu 1.10 [0.86, 1.31]	ML Prediction using MD Feature Vector Trained ...	0.61 [0.39, 0.80]	0.51 [0.32, 0.73]	0.40 [0.14, 0.67]	0.53 [0.12, 0.92]	0.57 [0.33, 0.77]	0.51 [0.48, 1.04]
tc4xa 1.10 [0.86, 1.32]	NHLBI-NN-5HL	0.62 [0.41, 0.80]	0.51 [0.33, 0.73]	0.17 [-0.19, 0.52]	0.66 [0.15, 0.90]	1.21 [0.53, 1.66]	0.49 [0.48, 1.04]
6cdyo 0.78 [0.47, 1.10]	SM12-Solvation	0.65 [0.42, 0.83]	0.54 [0.32, 0.75]	-0.24 [-0.62, 0.12]	0.52 [0.19, 0.83]	0.93 [0.49, 1.71]	0.53 [0.48, 1.04]

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ID ES	name	RMSE	MAE	ME	R ²	m	
dbmg3 1.43 [1.38, 1.47]	GC-LSER	0.70 [0.48, 0.90]	0.60 [0.41, 0.82]	0.42 [0.11, 0.77]	0.47 [0.05, 0.81]	0.75 [0.19, 1.33]	0.38 [-
kxsp3 0.71 [0.40, 1.03]	PLS2 from NIST data and QM-generated QSAR Desc...	0.74 [0.49, 0.96]	0.62 [0.40, 0.87]	0.48 [0.15, 0.80]	0.36 [0.03, 0.76]	0.54 [0.07, 1.10]	0.35 [-
nh6c0 0.74 [0.49, 0.99]	Molecular-Dynamics-Expanded-Ensembles	0.74 [0.56, 0.94]	0.67 [0.49, 0.88]	0.09 [-0.34, 0.55]	0.62 [0.15, 0.87]	1.34 [0.53, 1.93]	0.49 [-
kivfu 1.07 [0.74, 1.38]	LogP-prediction-method-IEFPCM/MST	0.78 [0.34, 1.09]	0.56 [0.26, 0.90]	-0.03 [-0.54, 0.42]	0.41 [0.03, 0.89]	0.97 [0.23, 1.45]	0.45 [-
ujsgv 1.27 [1.13, 1.40]	Alchemical-CGenFF	0.82 [0.53, 1.08]	0.67 [0.37, 0.97]	-0.31 [-0.72, 0.17]	0.33 [0.01, 0.84]	0.80 [0.03, 1.47]	0.35 [-
wu52s 0.42 [0.17, 0.72]	LogP-PLS-ECFC4-CSsep-Bayer	0.83 [0.57, 1.05]	0.72 [0.49, 0.98]	0.70 [0.42, 0.97]	0.55 [0.09, 0.99]	0.54 [0.24, 0.93]	0.56 [-
5mahv 1.07 [0.77, 1.34]	ML Prediction using MD Feature Vector Trained ...	0.85 [0.44, 1.16]	0.62 [0.34, 0.98]	-0.02 [-0.53, 0.47]	0.34 [0.02, 0.77]	0.90 [0.21, 1.36]	0.24 [-
g6dwz 0.84 [0.53, 1.15]	NHLBI-NN-3HL	0.85 [0.56, 1.07]	0.72 [0.45, 0.97]	0.35 [-0.11, 0.79]	0.52 [0.09, 0.86]	1.18 [0.51, 1.74]	0.45 [-
bqeuH 1.33 [1.19, 1.44]	ISIDA-LSER	0.87 [0.52, 1.17]	0.66 [0.35, 1.02]	0.25 [-0.26, 0.77]	0.01 [0.00, 0.52]	-0.05 [-0.42, 0.45]	0.02 [-
d7vth 0.77 [0.53, 1.01]	UFZ-LSER	0.87 [0.62, 1.09]	0.78 [0.56, 1.00]	-0.65 [-0.97, -0.33]	0.63 [0.22, 0.94]	1.11 [0.76, 1.38]	0.49 [-
2mi5w 1.21 [1.04, 1.35]	Alchemical-CGenFF	0.95 [0.63, 1.24]	0.81 [0.54, 1.12]	-0.30 [-0.84, 0.26]	0.18 [0.00, 0.64]	0.61 [-0.15, 1.27]	0.24 [-
qz8d5 1.40 [1.34, 1.45]	SMD-Solvation	0.97 [0.70, 1.19]	0.84 [0.55, 1.13]	0.77 [0.42, 1.11]	0.53 [0.18, 0.84]	0.93 [0.51, 1.55]	0.48 [-
kuddg 0.17 [0.02, 0.34]	LogP-Pred-MTNN-GraphConv-Bayer	0.97 [0.71, 1.19]	0.89 [0.66, 1.12]	0.89 [0.66, 1.12]	0.67 [0.28, 0.95]	0.71 [0.42, 1.04]	0.53 [-
y0xxd 1.31 [1.12, 1.47]	FS-GM (Fast switching Growth Method)	1.04 [0.39, 1.50]	0.72 [0.30, 1.21]	0.37 [-0.16, 1.00]	0.33 [0.00, 0.93]	1.03 [-0.27, 2.01]	0.42 [-
2ggir 0.83 [0.64, 1.02]	FS-AGM (Fast switching Annihilation/Growth Met...	1.04 [0.82, 1.23]	0.98 [0.74, 1.18]	-0.36 [-0.88, 0.28]	0.31 [0.00, 0.93]	0.98 [-0.29, 1.90]	0.49 [-
dyxbt -0.00 [-0.00, -0.00]	B3PW91-TZ SMD set1	1.07 [0.77, 1.36]	0.96 [0.69, 1.25]	0.96 [0.69, 1.25]	0.55 [0.08, 0.92]	0.68 [0.20, 1.16]	0.56 [-
mm0jf 1.09 [0.99, 1.22]	LogP-prediction-SMD-HuangLab	1.09 [0.93, 1.25]	1.03 [0.82, 1.24]	1.03 [0.82, 1.24]	0.75 [0.39, 0.98]	0.60 [0.38, 0.82]	0.75 [-
h83sb 0.33 [0.06, 0.58]	Linear Regression with B3LYP/6-31G+	1.12 [0.59, 1.61]	0.87 [0.48, 1.31]	-0.21 [-0.92, 0.40]	0.00 [0.00, 0.58]	-0.02 [-1.03, 0.85]	-0.16 [-
3wvyh 1.23 [0.94, 1.42]	Alchemical-CGenFF	1.13 [0.50, 1.75]	0.77 [0.35, 1.31]	0.26 [-0.31, 1.06]	0.37 [0.03, 0.93]	1.24 [0.35, 2.26]	0.55 [-
f3dpg 0.63 [0.27, 1.00]	PLS from NIST data and QM-generated QSAR Descr...	1.17 [0.70, 1.56]	0.92 [0.49, 1.39]	-0.85 [-1.36, -0.35]	0.11 [0.00, 0.48]	0.36 [-0.16, 0.81]	0.15 [-
25s67 0.79 [0.52, 1.06]	FS-AGM (Fast switching Annihilation/Growth Met...	1.21 [0.83, 1.55]	1.06 [0.71, 1.46]	-0.97 [-1.44, -0.53]	0.63 [0.14, 0.90]	1.33 [0.33, 2.34]	0.45 [-

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ID ES	name	RMSE	MAE	ME	R ²	m	
zdj0j 0.08 [-0.00, 0.32]	Solvation-B3LYP	1.21 [0.97, 1.42]	1.13 [0.86, 1.38]	1.13 [0.86, 1.38]	0.64 [0.25, 0.95]	0.86 [0.39, 1.29]	0.64 [-0.00, 0.32]
7gg6s 0.60 [0.22, 0.96]	MLR from NIST data and QM-generated QSAR Descr...	1.27 [0.84, 1.63]	1.00 [0.58, 1.46]	-1.00 [-1.44, -0.57]	0.10 [0.00, 0.46]	0.31 [-0.12, 0.76]	0.16 [-0.12, 0.76]
hwf2k 0.48 [0.23, 0.79]	Extended solvent-contact model approach	1.28 [0.55, 1.93]	0.93 [0.47, 1.53]	-0.09 [-0.97, 0.58]	0.12 [0.00, 0.85]	0.68 [-0.85, 1.57]	0.31 [-0.85, 1.57]
pcv32 0.28 [0.02, 0.50]	Solvation- WB97X-D	1.28 [1.02, 1.54]	1.17 [0.84, 1.49]	1.17 [0.84, 1.49]	0.50 [0.10, 0.90]	0.75 [0.21, 1.40]	0.44 [-0.21, 1.40]
v2q0t 1.34 [1.25, 1.42]	InterX_GAFF_WET_OCTANOL	1.31 [0.97, 1.66]	1.16 [0.85, 1.53]	-1.15 [-1.52, -0.83]	0.70 [0.27, 0.98]	1.31 [0.92, 1.57]	0.64 [0.92, 1.57]
rdsnw 0.98 [0.71, 1.21]	EC_RISM_wet_P1w+1o	1.32 [0.85, 1.68]	1.15 [0.78, 1.54]	1.15 [0.78, 1.54]	0.78 [0.43, 0.97]	1.51 [1.13, 1.79]	0.75 [1.13, 1.79]
ggm6n 1.17 [1.00, 1.32]	FS-GM (Fast switching Growth Method)	1.32 [0.98, 1.64]	1.16 [0.81, 1.53]	-1.15 [-1.53, -0.76]	0.53 [0.11, 0.86]	1.04 [0.39, 1.69]	0.53 [0.39, 1.69]
jjd0b 0.75 [0.47, 1.08]	MD/S-MBIS-GAFF-TIP3P/MBAR/	1.35 [0.87, 1.78]	1.13 [0.69, 1.63]	-1.09 [-1.60, -0.59]	0.66 [0.22, 0.92]	1.51 [0.80, 2.13]	0.53 [0.80, 2.13]
2tzb0 1.00 [0.76, 1.21]	EC_RISM_dry_P1w+1o	1.38 [0.94, 1.79]	1.21 [0.84, 1.64]	1.21 [0.84, 1.64]	0.79 [0.40, 0.97]	1.58 [1.23, 1.87]	0.75 [1.23, 1.87]
cr3hs 0.65 [0.31, 1.01]	PLS3 from NIST data and QM-generated QSAR Descr...	1.39 [0.58, 2.13]	0.96 [0.47, 1.66]	0.80 [0.23, 1.57]	0.40 [0.01, 0.80]	1.36 [-0.15, 2.68]	0.35 [-0.15, 2.68]
arw58 -0.00 [-0.00, -0.00]	DLPNO-CCSD(T)/cc-pVTZ//B3LYP-D3/cc-pVTZ	1.41 [0.81, 1.90]	1.09 [0.61, 1.64]	1.01 [0.46, 1.60]	0.09 [0.00, 0.53]	-0.24 [-0.76, 0.25]	-0.20 [-0.76, 0.25]
ahmtf -0.00 [-0.00, -0.00]	B3PW91-TZ SMD kcl-wet-oct	1.41 [1.13, 1.70]	1.33 [1.06, 1.63]	1.33 [1.06, 1.63]	0.55 [0.12, 0.89]	0.70 [0.24, 1.14]	0.56 [0.24, 1.14]
o7djk -0.00 [-0.00, -0.00]	B3PW91-TZ SMD wetoct	1.42 [1.11, 1.73]	1.34 [1.05, 1.65]	1.34 [1.05, 1.65]	0.55 [0.13, 0.89]	0.70 [0.22, 1.20]	0.56 [0.22, 1.20]
4p2ph -0.00 [-0.00, -0.00]	DLPNO-Solv-ccCA	1.44 [0.81, 1.96]	1.12 [0.62, 1.72]	1.04 [0.48, 1.70]	0.09 [0.00, 0.54]	-0.26 [-0.78, 0.23]	-0.26 [-0.78, 0.23]
fmf7r 0.32 [0.05, 0.67]	dice	1.44 [1.03, 1.77]	1.25 [0.83, 1.67]	0.26 [-0.63, 1.13]	0.05 [0.00, 0.61]	0.47 [-0.93, 2.15]	0.10 [-0.93, 2.15]
6fyg5 0.05 [0.00, 0.18]	Solvation-M062X	1.50 [1.28, 1.70]	1.44 [1.18, 1.67]	1.44 [1.18, 1.67]	0.69 [0.32, 0.96]	0.93 [0.50, 1.52]	0.71 [0.50, 1.52]
sqosi 0.72 [0.41, 1.05]	MD-AMBER-dryoct	1.69 [1.12, 2.18]	1.42 [0.86, 1.98]	-1.40 [-1.96, -0.82]	0.51 [0.05, 0.89]	1.40 [0.40, 2.05]	0.45 [0.40, 2.05]
rs4ns 0.07 [-0.00, 0.27]	BLYP/cc-pVTZ//B3LYP-D3/cc-pVTZ	1.71 [1.07, 2.25]	1.44 [0.89, 2.04]	1.44 [0.89, 2.04]	0.06 [0.00, 0.53]	-0.19 [-0.74, 0.28]	-0.22 [-0.74, 0.28]
c7t5j -0.00 [-0.00, 0.06]	PBE/cc-pVTZ//B3LYP-D3/cc-pVTZ	1.73 [1.15, 2.28]	1.47 [0.96, 2.05]	1.47 [0.96, 2.05]	0.05 [0.00, 0.50]	-0.18 [-0.71, 0.31]	-0.16 [-0.71, 0.31]
jc68f -0.00 [-0.00, 0.07]	PW91/cc-pVTZ//B3LYP-D3/cc-pVTZ	1.74 [1.15, 2.25]	1.47 [0.95, 2.03]	1.47 [0.95, 2.03]	0.05 [0.00, 0.49]	-0.18 [-0.72, 0.28]	-0.16 [-0.72, 0.28]
03cyy 0.36 [0.07, 0.69]	Linear Regression-B3LYP/6-311G**	1.75 [0.62, 2.69]	1.11 [0.45, 1.96]	0.03 [-0.91, 1.10]	0.00 [0.00, 0.52]	0.12 [-1.13, 1.50]	0.09 [-1.13, 1.50]

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ID ES	name	RMSE	MAE	ME	R ²	m	
hsotx -0.00 [-0.00, 0.01]	B3LYP/cc-pVTZ//B3LYP-D3/cc-pVTZ	1.81 [1.21, 2.33]	1.56 [1.01, 2.11]	1.56 [1.01, 2.11]	0.07 [0.00, 0.49]	-0.19 [-0.63, 0.28]	-0.20 [-
ke5gu 0.49 [0.20, 0.78]	MD/S-MBIS-GAFF-SPCE/MBAR/	1.82 [1.29, 2.25]	1.59 [1.03, 2.07]	-1.59 [-2.06, -1.03]	0.62 [0.17, 0.89]	1.54 [0.71, 2.21]	0.53 [-
fe8ws -0.00 [-0.00, -0.00]	B3PW91/cc-pVTZ//B3LYP-D3/cc-pVTZ	1.83 [1.28, 2.35]	1.58 [1.10, 2.15]	1.58 [1.10, 2.15]	0.06 [0.00, 0.48]	-0.18 [-0.67, 0.25]	-0.16 [-
mwuua 0.49 [0.28, 0.73]	MD-LigParGen-wetoct	1.83 [1.47, 2.11]	1.73 [1.38, 2.06]	-1.73 [-2.06, -1.37]	0.41 [0.01, 0.78]	0.67 [0.03, 1.21]	0.48 [-
fyx45 0.80 [0.47, 1.14]	LogP-prediction-Drude-FEP-HuangLab	1.85 [0.66, 2.72]	1.25 [0.55, 2.16]	0.65 [-0.29, 1.78]	0.63 [0.17, 0.92]	2.63 [1.15, 3.87]	0.67 [-
5t0yn -0.00 [-0.00, -0.00]	PBE0/cc-pVTZ//B3LYP-D3/cc-pVTZ	1.85 [1.29, 2.39]	1.61 [1.11, 2.15]	1.61 [1.11, 2.15]	0.06 [0.00, 0.49]	-0.18 [-0.62, 0.27]	-0.16 [-
6nmtt 0.57 [0.35, 0.82]	MD-AMBER-wetoct	1.87 [1.33, 2.45]	1.65 [1.16, 2.19]	-1.65 [-2.17, -1.15]	0.42 [0.04, 0.92]	1.10 [0.34, 1.61]	0.60 [-
eufcy 0.41 [0.22, 0.65]	MD-LigParGen-dryoct	1.99 [1.60, 2.34]	1.88 [1.48, 2.26]	-1.77 [-2.25, -1.18]	0.54 [0.19, 0.87]	1.43 [0.52, 2.38]	0.66 [-
tzzb5 0.66 [0.36, 1.00]	Alchemical-CGenFF	2.12 [1.57, 2.63]	1.87 [1.28, 2.51]	1.43 [0.56, 2.36]	0.20 [0.00, 0.65]	-0.76 [-1.57, 0.20]	-0.20 [-
3oqhx 0.75 [0.40, 1.13]	MD-CHARMM-dryoct	2.14 [1.25, 2.86]	1.64 [0.88, 2.48]	1.11 [0.00, 2.25]	0.03 [0.00, 0.44]	-0.44 [-1.85, 0.98]	0.00 [-
bzeez 0.23 [0.06, 0.51]	FS-AGM (Fast switching Annihilation/Growth Met...	2.20 [1.81, 2.51]	2.07 [1.57, 2.47]	-2.07 [-2.47, -1.54]	0.63 [0.19, 0.95]	1.39 [0.85, 2.07]	0.53 [-
5svjv 0.74 [0.56, 0.96]	FS-GM (Fast switching Growth Method)	2.26 [1.80, 2.67]	2.14 [1.68, 2.60]	-2.03 [-2.59, -1.32]	0.39 [0.02, 0.91]	1.20 [0.35, 1.81]	0.44 [-
ynquk 1.07 [0.95, 1.20]	TWOVAR	2.26 [1.86, 2.60]	2.13 [1.66, 2.56]	2.13 [1.66, 2.56]	0.08 [0.00, 0.77]	0.25 [-0.29, 0.63]	0.38 [-
odex0 1.09 [0.90, 1.30]	InterX_ARROW_2017_PIMD_SOLVENT2_WET_OCTANOL	2.29 [1.63, 2.84]	1.98 [1.30, 2.69]	1.73 [0.84, 2.61]	0.09 [0.00, 0.66]	-0.53 [-1.82, 0.78]	-0.09 [-
pnc4j 0.39 [0.17, 0.73]	LogP-prediction-Drude-Umbrella-HuangLab	2.29 [1.64, 2.90]	2.03 [1.38, 2.69]	2.03 [1.38, 2.69]	0.04 [0.00, 0.66]	0.31 [-0.76, 1.27]	0.20 [-
padym 1.09 [0.90, 1.27]	InterX_ARROW_2017_PIMD_WET_OCTANOL	2.29 [1.65, 2.82]	1.99 [1.33, 2.67]	1.72 [0.77, 2.62]	0.12 [0.00, 0.69]	-0.60 [-1.99, 0.76]	-0.13 [-
fcpk 1.06 [0.85, 1.26]	ARROW_2017_PIMD_SOLVENT2	2.40 [1.70, 2.98]	2.10 [1.39, 2.82]	1.97 [1.12, 2.79]	0.11 [0.00, 0.64]	-0.50 [-1.56, 0.60]	-0.16 [-
6cm6a 1.06 [0.86, 1.29]	ARROW_2017_PIMD	2.41 [1.70, 2.94]	2.10 [1.37, 2.82]	1.94 [1.05, 2.79]	0.19 [0.00, 0.69]	-0.66 [-1.78, 0.63]	-0.27 [-
bq6fo 0.23 [0.00, 0.42]	Extended solvent-contact model approach	2.58 [1.67, 3.33]	2.15 [1.33, 2.99]	1.55 [0.31, 2.71]	0.10 [0.00, 0.58]	1.05 [-0.83, 2.57]	0.09 [-
4nfzz 0.20 [0.05, 0.38]	MD/S-HI-GAFF-TIP3P/MBAR/	2.67 [1.98, 3.35]	2.44 [1.84, 3.14]	-2.44 [-3.13, -1.83]	0.40 [0.05, 0.88]	1.30 [0.54, 1.86]	0.42 [-
623c0 0.18 [0.09, 0.29]	MD-OPLSAA-wetoct	2.67 [2.13, 3.28]	2.53 [2.08, 3.12]	-2.53 [-3.10, -2.07]	0.22 [0.01, 0.79]	0.64 [-0.09, 1.13]	0.38 [-

Continued on next page

ID ES	name	RMSE	MAE	ME	R ²	m	
eg52i 0.96 [0.70, 1.22]	ARROW_2017	2.86 [2.02, 3.53]	2.41 [1.55, 3.28]	2.06 [0.94, 3.17]	0.15 [0.00, 0.60]	-0.94 [-2.43, 0.22]	-0.16 [-
5585v 0.46 [0.21, 0.73]	Alchemical-CGenFF	2.88 [1.97, 3.65]	2.55 [1.78, 3.35]	2.40 [1.38, 3.28]	0.04 [0.00, 0.55]	-0.41 [-2.05, 0.72]	-0.20 [-
cp8kv 0.12 [0.06, 0.21]	MD-OPLSAA-dryoct	2.88 [2.29, 3.60]	2.72 [2.25, 3.35]	-2.72 [-3.34, -2.24]	0.24 [0.00, 0.95]	0.78 [-0.01, 1.42]	0.59 [-
j4nb3 0.89 [0.71, 1.08]	FOURVAR	2.89 [2.35, 3.38]	2.63 [1.89, 3.27]	2.63 [1.89, 3.27]	0.01 [0.00, 0.79]	0.12 [-0.79, 0.91]	0.16 [-
hf4wj 0.09 [0.02, 0.20]	MD/S-HI-GAFF-SPCE/MBAR/	3.28 [2.53, 4.11]	3.04 [2.40, 3.85]	-3.04 [-3.83, -2.39]	0.34 [0.03, 0.84]	1.31 [0.40, 1.97]	0.38 [-
pku5g 0.39 [0.25, 0.57]	SAMPL5_49_retro3	4.87 [4.06, 5.70]	4.68 [3.89, 5.49]	4.68 [3.89, 5.49]	0.49 [0.02, 0.90]	1.80 [0.27, 3.00]	0.56 [-
po4g2 0.34 [0.20, 0.52]	SAMPL5_49	5.46 [4.39, 6.61]	5.17 [4.21, 6.28]	5.17 [4.21, 6.28]	0.51 [0.04, 0.87]	2.33 [0.49, 3.74]	0.56 [-

Notes

- RMSE: Root mean square error
- MAE: Mean absolute error
- ME: Mean error
- R2: R-squared, square of Pearson correlation coefficient
- m: slope of the line fit to predicted vs experimental logP values
- ES: error slope calculated from the QQ Plots of model uncertainty predictions
- Mean and 95% confidence intervals of RMSE, MAE, ME, R2, and m were calculated by bootstrapping with 10000 samples.
- 95% confidence intervals of ES were calculated by bootstrapping with 1000 samples.