ID	name	RMSE	MAE	ME	\mathbb{R}^2	m
xvxzd	Full quantum chemical calculation of free ener	0.680 [0.547, 0.810]	0.579 [0.451, 0.711]	-0.235 [-0.463, 0.004]	0.937 [0.878, 0.973]	1.015 [0.915, 1.113]
gyuhx	S+pKa	0.730 [0.549, 0.912]	0.579 [0.428, 0.740]	-0.009 [-0.264, 0.251]	0.925 [0.868, 0.964]	0.929 [0.812, 1.028]
xmyhm	ACD/pKa Classic	0.774 [0.495, 1.032]	0.546 [0.367, 0.757]	-0.102 [-0.372, 0.184]	0.916 [0.829, 0.968]	0.934 [0.815, 1.046]
yqkga	ReSCoSS conformations // COSMOtherm pKa	0.903 [0.682, 1.121]	0.710 [0.515, 0.917]	0.288 [-0.030, 0.580]	0.901 [0.826, 0.953]	0.901 [0.773, 1.036]
nb007	Epik-sequential	0.968 [0.759, 1.171]	0.810 [0.626, 1.001]	-0.025 [-0.358, 0.321]	0.871 [0.762, 0.936]	0.997 [0.853, 1.117]
8xt50	ReSCoSS conformations // DSD-BLYP-D3 reranking	1.071 [0.786, 1.362]	0.814 [0.584, 1.073]	0.475 [0.143, 0.823]	0.906 [0.841, 0.951]	0.840 [0.744, 0.954]
p0jba	macroscopic pKa prediction from microscopic pK	1.315 [0.687, 1.728]	1.084 [0.428, 1.720]	0.924 [0.108, 1.720]	0.910 [0.509, 1.000]	0.768 [0.558, 1.516]
37 xm 8	$\mathrm{ACD/pKa}\ \mathrm{GALAS}$	1.358 [0.856, 1.806]	0.955 [0.633, 1.330]	0.101 [-0.388, 0.597]	0.854 [0.729, 0.938]	0.729 [0.600, 0.880]
hytjn	OE Gaussian Process	1.434 [0.983, 1.829]	1.034 [0.683, 1.418]	-0.240 [-0.755, 0.274]	0.675 [0.413, 0.852]	0.795 [0.601, 1.008]
q3pfp	OE Gaussian Process Resampled	1.484 [1.056, 1.868]	1.140 [0.808, 1.508]	-0.090 [-0.656, 0.427]	0.667 [0.436, 0.837]	0.752 [0.567, 0.963]
mkhqa	EC-RISM/MP2/cc-pVTZ-P2-phi-all-2par	1.596 [1.134, 2.041]	1.239 [0.906, 1.619]	0.316 [-0.222, 0.890]	0.803 [0.671, 0.903]	0.705 [0.567, 0.837]
2ii2g	EC-RISM/MP2/cc-pVTZ-P2-q-noThiols-2par	1.683 [1.202, 2.158]	1.304 [0.956, 1.725]	1.061 [0.615, 1.553]	0.837 [0.733, 0.915]	0.780 [0.637, 0.927]
nb001	EC-RISM/MP2/6-311+G(d,p)-P2-phi-all-2par	1.702 [1.055, 2.389]	1.219 [0.837, 1.672]	-0.422 [-1.033, 0.134]	0.792 [0.685, 0.899]	0.664 [0.517, 0.858]
$35 \mathrm{bdm}$	macroscopic pKa prediction from microscopic pK	1.719 [0.665, 2.338]	1.442 [0.622, 2.262]	1.006 [-0.134, 2.178]	0.919 [0.463, 1.000]	0.635 [0.394, 0.806]
nb002	EC-RISM/MP2/6-311+G(d,p)-P2-phi-noThiols-2par	1.720 [1.077, 2.399]	1.250 [0.878, 1.719]	-0.467 [-1.087, 0.092]	0.794 [0.687, 0.902]	0.662 [0.516, 0.850]
ryzue	Adiabatic scheme with single point correction	1.745 [1.358, 2.091]	1.436 [1.087, 1.790]	-1.227 [-1.659, -0.773]	0.922 [0.861, 0.962]	0.710 [0.642, 0.795]
yc70m	PCM/B3LYP/6-311+G(d,p)	1.878 [1.587, 2.148]	1.674 [1.359, 1.982]	0.688 [0.028, 1.304]	0.531 [0.333, 0.721]	0.793 [0.581, 1.065]
5byn 6	Adiabatic scheme for type III submission	1.891 [1.491, 2.271]	1.553 [1.183, 1.940]	-1.273 [-1.763, -0.785]	0.912 [0.841, 0.959]	0.677 [0.613, 0.760]
y75vj	Direct scheme for type III submission	1.901 [1.504, 2.254]	1.584 [1.216, 1.962]	-1.039 [-1.596, -0.473]	0.891 [0.790, 0.950]	0.663 [0.596, 0.736]
np6b4	EC-RISM/B3LYP/6-311+G(d,p)-P2-phi-noThiols-2par	1.938 [1.212, 2.726]	1.435 [1.038, 1.945]	0.467 [-0.235, 1.072]	0.709 [0.600, 0.868]	0.655 [0.475, 0.975]
w4iyd	Vertical scheme for type III submission	1.939 [1.531, 2.316]	1.578 [1.174, 2.004]	-1.211 [-1.756, -0.666]	0.849 [0.715, 0.930]	0.676 [0.602, 0.773]
pwn3m	$Analog_search$	1.970 [0.773, 2.860]	1.115 [0.566, 1.816]	-0.285 [-1.112, 0.376]	0.354 [0.018, 0.901]	0.607 [0.133, 0.869]
f0gew	EC-RISM/B3LYP/6-311+G(d,p)-P3NI-phi-noThiols-2par	2.184 [1.394, 2.937]	1.578 [1.103, 2.148]	0.733 [-0.029, 1.416]	0.769 [0.665, 0.892]	0.596 [0.454, 0.811]
xikp8	Direct scheme with single point correction for	2.340 [1.912, 2.731]	2.026 [1.610, 2.458]	-0.933 [-1.703, -0.144]	0.867 [0.768, 0.933]	0.569 [0.492, 0.649]
5nm 4 j	Substructure matches from experimental data	2.450 [1.417, 3.336]	1.583 [0.938, 2.333]	-0.046 [-1.053, 0.810]	0.192 [0.001, 0.697]	0.484 [-0.099, 0.961]
ad5pu	EC-RISM/B3LYP/6-311+G(d,p)-P3NI-q-noThiols-2par	2.508 [1.602, 3.287]	1.744 [1.143, 2.420]	0.526 [-0.373, 1.379]	$0.726 \ [0.591, \ 0.850]$	0.528 [0.403, 0.724]
0hxtm	$COSMOtherm_FINE17$	2.638 [0.881, 3.820]	1.423 [0.666, 2.372]	-0.736 [-1.794, 0.136]	0.127 [0.001, 0.835]	0.313 [-0.199, 0.777]
ds62k	EC-RISM/MP2/6-311+G(d,p)-P3NI-q-noThiols-2par	2.987 [1.454, 4.609]	1.883 [1.243, 2.835]	0.230 [-0.715, 1.408]	$0.540 \ [0.241, \ 0.882]$	0.461 [0.226, 0.747]
ttjd0	EC-RISM/MP2/cc-pVTZ-P2-phi-noThiols-2par	2.989 [1.293, 4.723]	1.695 [1.015, 2.737]	0.773 [-0.094, 1.936]	0.516 [0.222, 0.882]	$0.450 \ [0.210, \ 0.776]$
mpwiy	EC-RISM/MP2/cc-pVTZ-P3NI-phi-noThiols-2par	3.007 [1.451, 4.626]	1.841 [1.164, 2.795]	0.491 [-0.420, 1.644]	0.547 [0.247, 0.876]	0.459 [0.230, 0.740]
nb004	EC-RISM/MP2/6-311+G(d,p)-P3NI-phi-noThiols-2par	3.277 [1.483, 5.066]	1.985 [1.229, 3.075]	0.102 [-0.932, 1.400]	$0.523 \ [0.227, \ 0.870]$	0.404 [0.190, 0.705]
nb003	EC-RISM/MP2/6-311+G(d,p)-P3NI-phi-all-2par	3.288 [1.474, 5.085]	1.997 [1.232, 3.078]	0.138 [-0.904, 1.445]	$0.526 \ [0.233, \ 0.875]$	0.403 [0.195, 0.703]
nb005	EC-RISM/MP2/6-311+G(d,p)-P2-phi-all-1par	4.111 [1.875, 6.415]	2.443 [1.511, 3.806]	$0.470 \left[-0.829, 2.053 \right]$	0.486 [0.194, 0.879]	0.339 [0.152, 0.631]
nb006	EC-RISM/MP2/6-311 + G(d,p)-P3NI-phi-all-1par	4.558 [2.439, 6.850]	2.999 [2.017, 4.388]	0.370 [-1.099, 2.135]	0.517 [0.226, 0.881]	0.315 [0.151, 0.543]

Notes

- Mean and 95% confidence intervals of statistic values were calculated by bootstrapping.
- Submissions with submission IDs nb001, nb002, nb003, nb004, nb005 and nb005 include non-blind corrections to pKa predictions of only SM22 molecule. pKas of the rest of the molecules in these submissions were blindly predicted before experimental data was released.
- pKa predictions of Epik-sequencial method (submission ID: nb007) were not blind. They were submitted after the submission deadline to be used as a reference method.