SUPPORTING INFORMATION

Equilibrium adsorption of organic compounds (nitrobenzene derivative, synthetic pesticide, dye, and surfactant) on activated carbon from single- and multi-component systems

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Table S1. Physicochemical properties of the studied pollutants.

Adsorbate	M [g/mol]	pK_a	Solubility [g/L]	Van der Waals volume [$Å^3$]	Maximal projection area [$Å^2$]
4-NA	138.12	1.00	0.57	115.97	47.44
4-CPA	186.59	3.14	0.96	149.71	56.50
AR 88	400.38	11.06	1.50	307.60	114.27
U	376.28	2.2; 4.4; 6.7	10	271.34	86.84

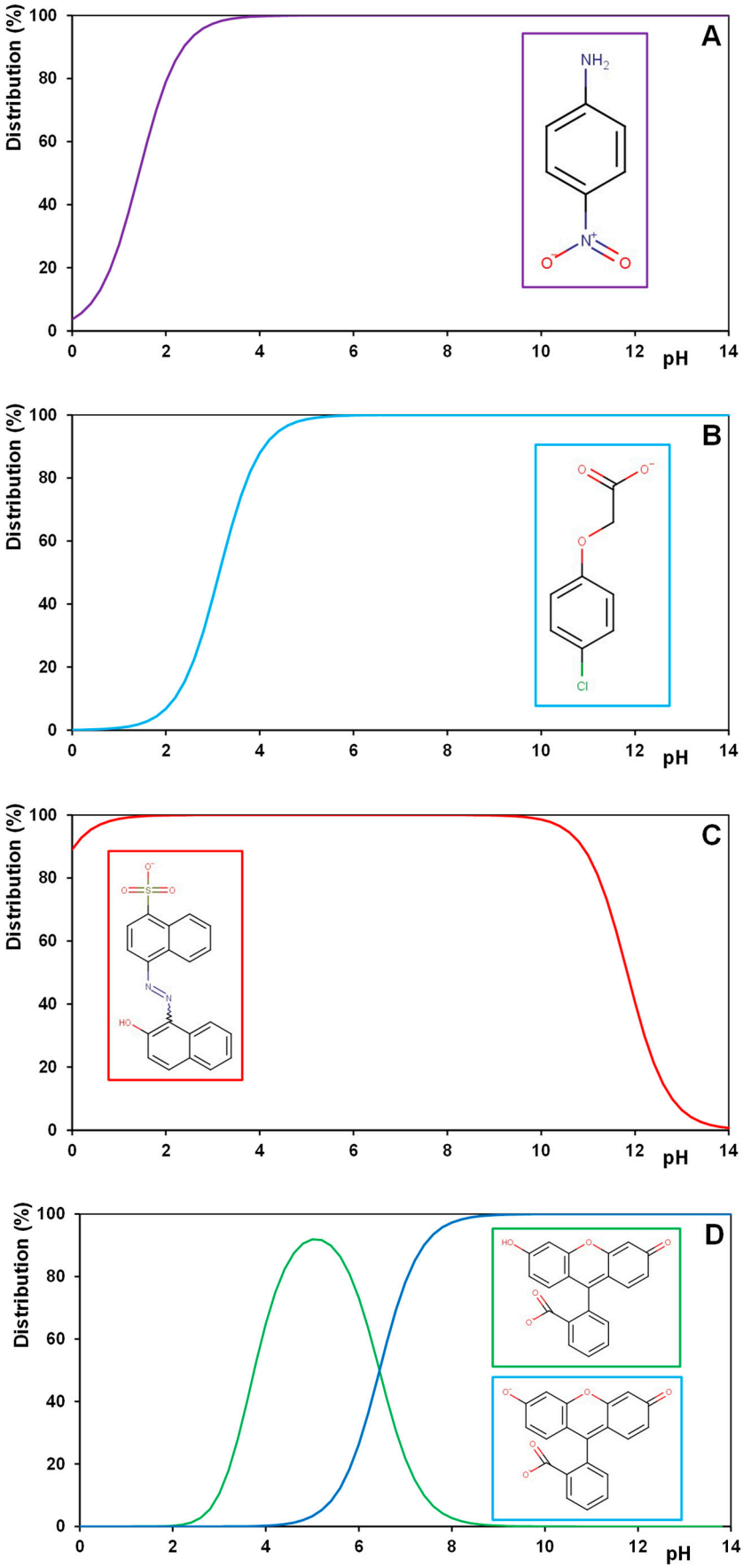

Figure S1. Percentage of molecular forms of 4-NA (**A**), 4-CPA (**B**), AR 88 (**C**), and U (**D**) as a function of pH solution.

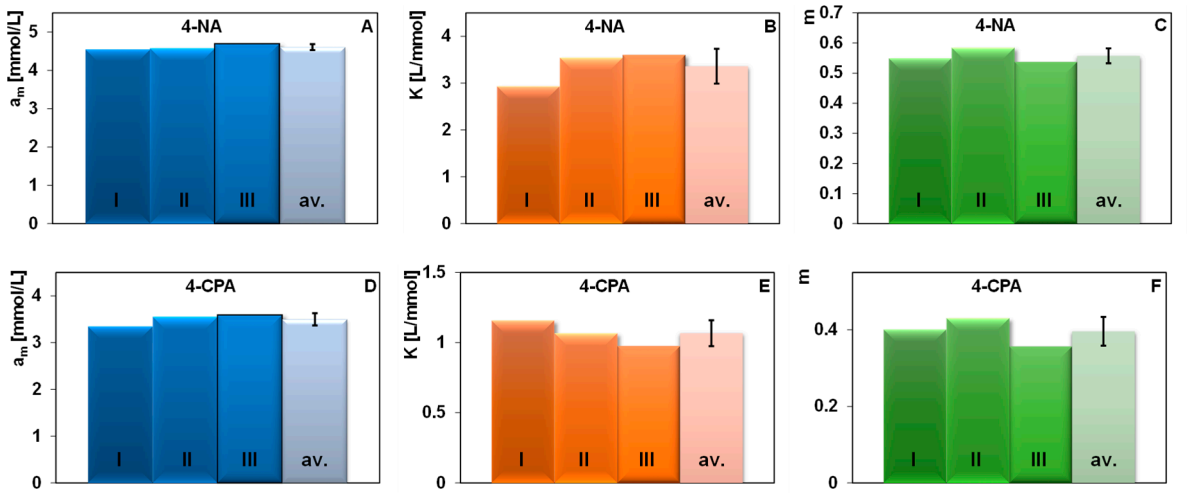

Figure S2. Graphical presentation of the values of Generalized Freundlich equation parameters a_m, m and K and their uncertainties, for independent series (I–III) of adsorption measurements of 4-NA (A, B, C) and 4-CPA (D, E, F) on the activated carbon RIAA.