

Novel Hybridized SWCNT-PCD: Synthesis and Host-Guest Inclusion for Electrical Sensing Recognition of Persistent Organic Pollutants

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Electronic Supporting Information

Table S1 Complex Stability Constant (K), Standard Gibbs free energy (ΔG°), Standard Enthalpy changes (ΔH°) and Entropy Changes ($T\Delta S^\circ$) values obtained for the 1:1 inclusion complexes of the PCD with different POPs at T = 298.15 K

POPs	K/M ⁻¹	$-\Delta G^\circ/\text{kJ mol}^{-1}$	$-\Delta H^\circ/\text{kJ mol}^{-1}$	$T\Delta S^\circ/\text{kJ mol}^{-1}$
TCB	9145 ± 229	22.59 ± 0.07	26.58 ± 0.08	-3.99
Aldrin	3613 ± 42	20.3 ± 0.03	22.8 ± 0.04	2.4
CD-68	2667 ± 32	19.55 ± 0.08	23.97 ± 0.1	-4.42
Mirex	1968 ± 15	18.8 ± 0.03	11.7 ± 0.3	7.1
HCB	823 ± 36	16.63 ± 0.1	25.83 ± 0.2	-9.20