Electronic Supplementary Material (ESI) for Environmental Science: Advances.

Electronic Supplementary Information

Emerging Environmental Contaminants at the Air/Aqueous and Biological Soft Interfaces

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Figure A.1 shows the surface tension vs. concetration (shown in log-scale) data for the various comopounds studied. The polynomial fit equation has the general form:

$$\gamma = A + B_1(logC) + B_2(logC)^2 + B_3(logC)^3$$

Table A.1 lists the fit parameters.

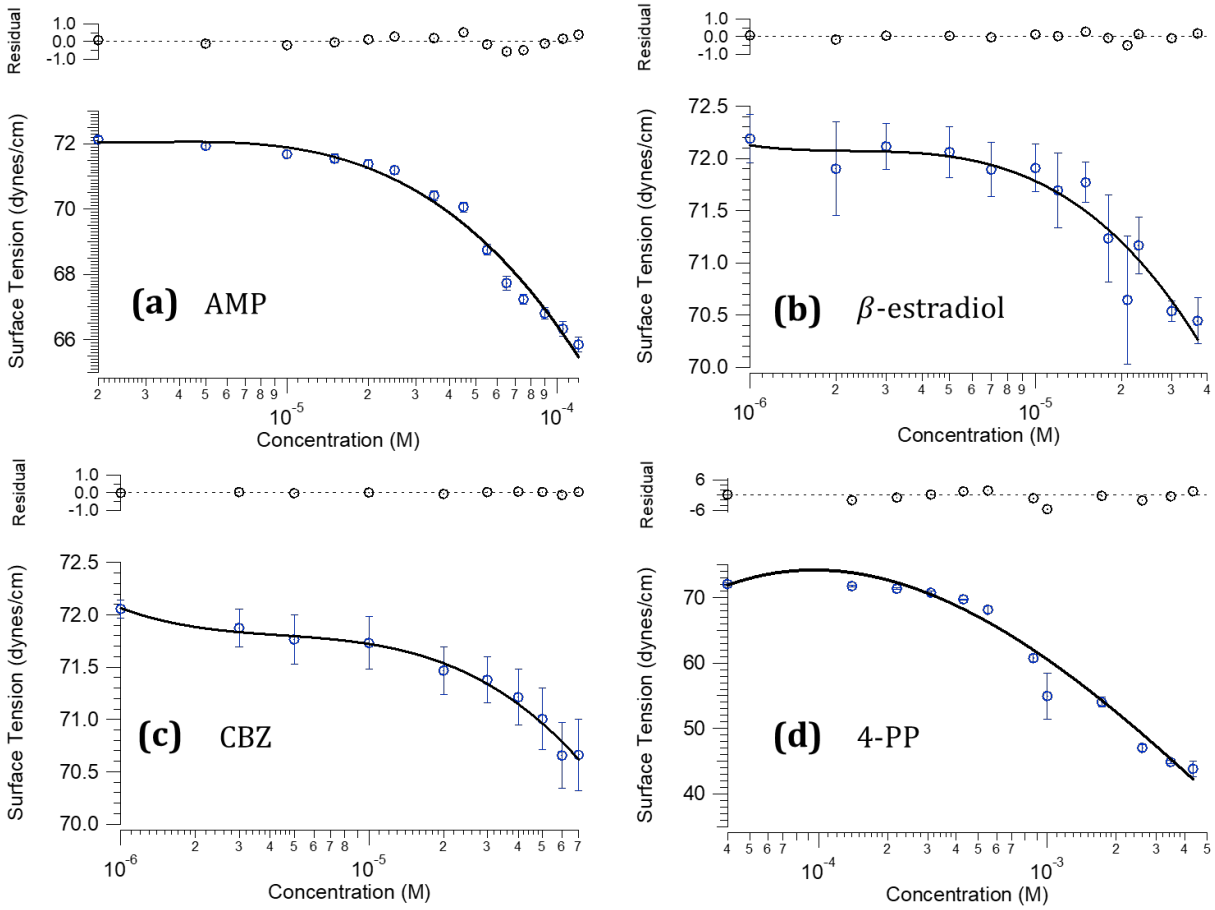

Figure A.1 Surface tension vs. concentration (log-scale) data. The solid traces are polynomical fitting of the experimental data.

Table A.1 Fitting parameters

	A	B_1	B_2	B_3
AMP	-214.96	-156.92	-28.58	-1.73
CBZ	6.79	-35.72	-6.59	-0.41
β-ED	-104.76	-93.85	-16.6	-0.98
4-PP	-24.10	-10.78	12.89	2.36

Figure A.2 shows the $\pi\ vs.\ A$ isotherm of DPPC and highlights the different phases and phase transitions. From low to high molecular area, the following phases are noted: gas (G), liquid expanded (LE), and liquid condensed (LC). The phase transitions from liquid-expanded phase to liquid-condensed phase (LC-LE), and gas to liquid expanded phase (LE-G) are also shown.

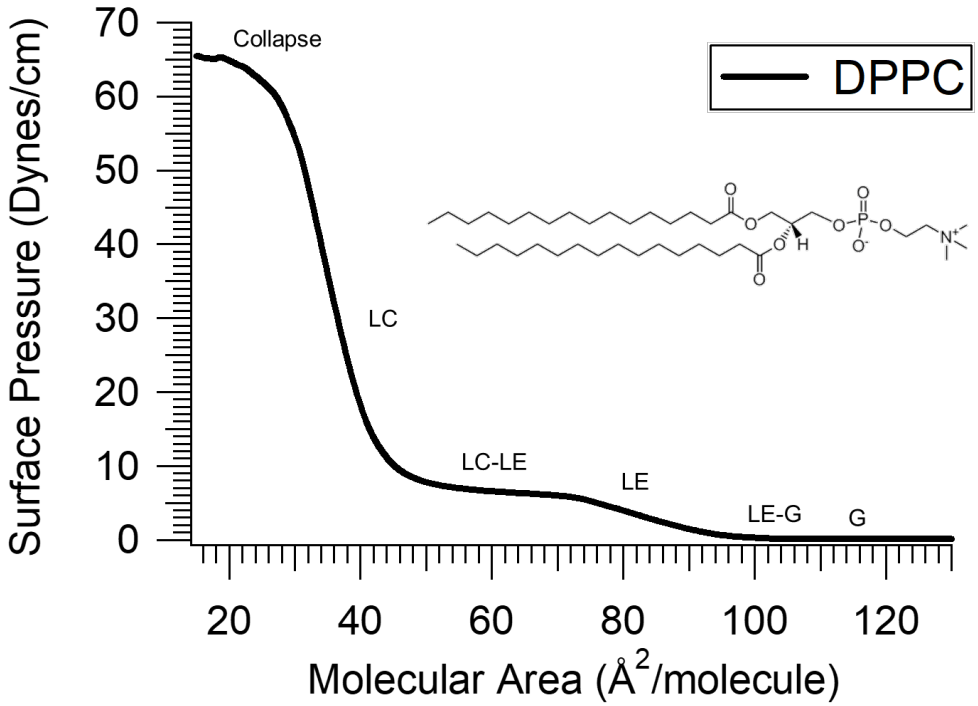

Figure A.2 Surface pressure vs. molecular area ($\pi\ vs.\ A$) isotherm of DPPC over pure Milli-Q water. Image of the molecular structure is from avantilipids.com.