**ELECTRONIC SUPPLEMENTARY INFORMATION**

**Adsorption of phosphate anions by halloysite (7Å) nanotubes (HNTs)**

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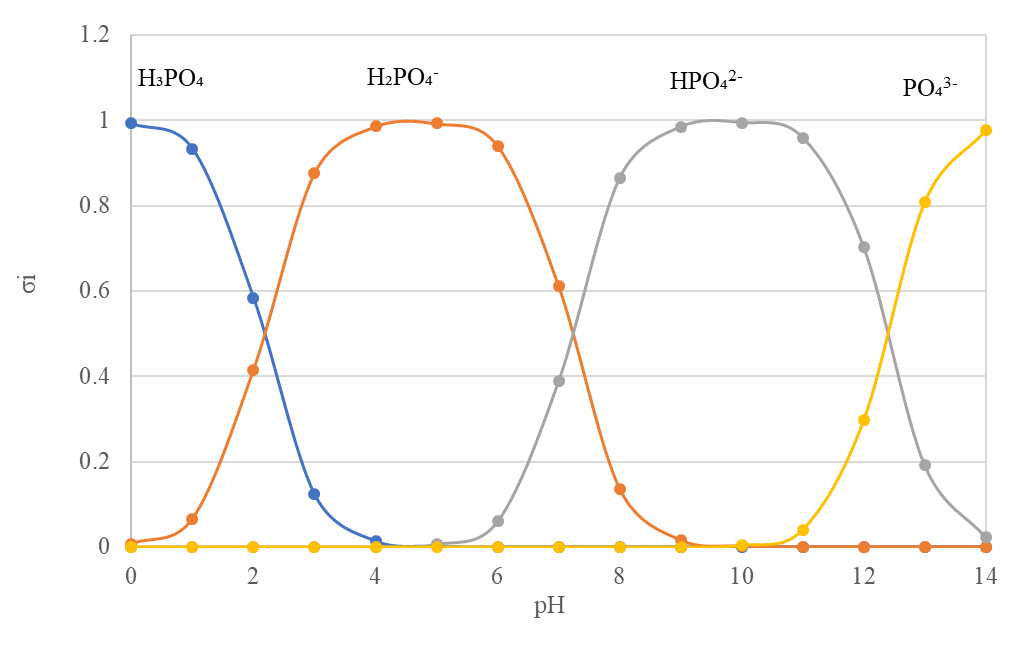
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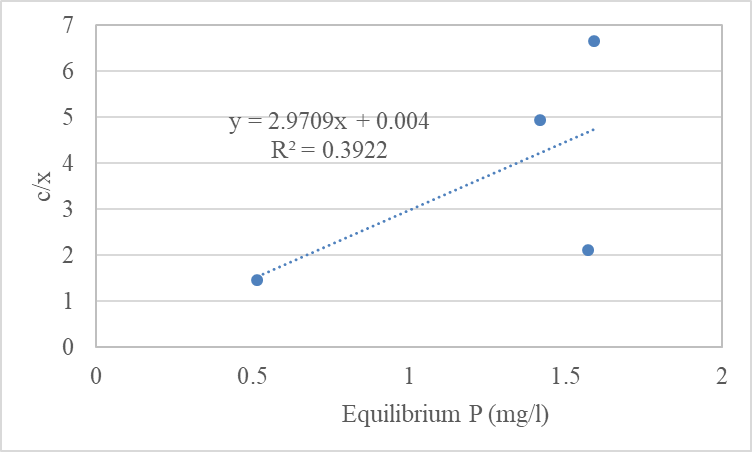
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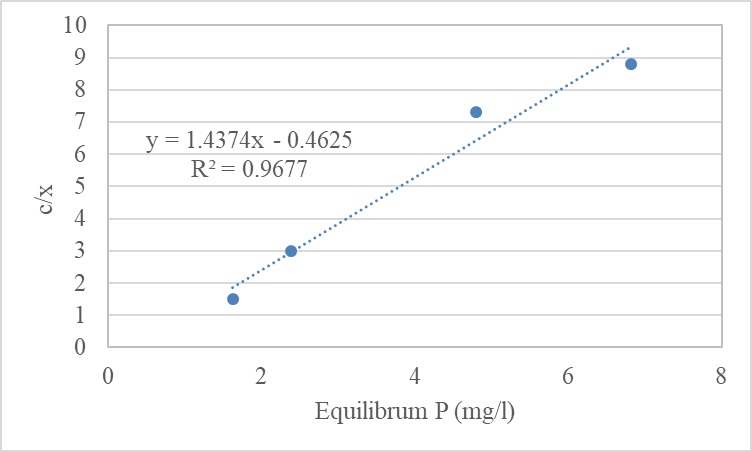
ESI Figure 1. Speciation of phosphoric acid over a pH range.



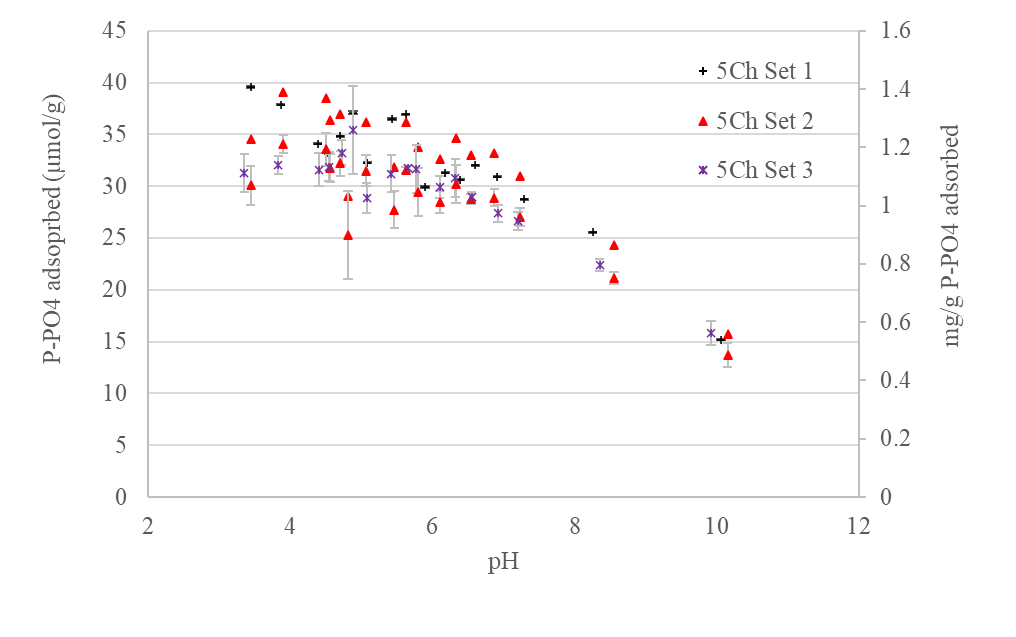
ESI Figure 2. Langmuir isotherm for 4Ch at equilibration.



ESI Figure 3. Langmuir isotherm for 17US at equilibration and pH 6 in 0.01 M NaCl.



ESI Figure 4. Cylindrical hydrated halloysite (5Ch of Hillier et al., 2016) adsorption isotherm. 10 mg/l initial P-PO4, 48 hours equilibration. Experiments were replicated in three sets. Note some scatter of points may be due to errors associated with estimation of the mass of halloysite in suspension, a procedure required to preserve the halloysite in hydrated form.



ESI Figure 5. Prismatic hydrated halloysite (23 US, Dragon Mine, Utah) adsorption isotherm. 10 mg/L initial P-PO4, 48 h of equilibration. Experiments were replicated in three sets. Note some scatter of points may be due to errors associated with estimation of the mass of halloysite in suspension, a procedure required to preserve the halloysite in hydrated form.

