Supporting Information for:

Effects of Water-soluble Organic Carbon on Aerosol pH

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**Figure S2:** AIOMFAC-modeled $\gamma_{\text{H}^+}$ (molality basis) and aerosol liquid water (ALW, polynomial fit to AIOMFAC output) versus organic dry mass fraction with the factorial addition of non-acid organic species for a) Baltimore and b) Beijing at 70% RH.
Figure S3: AIOMFAC-modeled $\gamma_{H^+}$ (molality basis) and aerosol liquid water (ALW, polynomial fit to AIOMFAC output) versus organic dry mass fraction with the factorial addition of organic acid species for a) Baltimore and b) Beijing at 90% RH.
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