

Evaluation of the Hydrophilic/Hydrophobic Balance of 13X Zeolite by Adsorption of Water, Methanol, and Cyclohexane as Pure Vapors or as Mixtures

Meryem Saidi ¹, François Bihl ², Olinda Gimello ¹, Benoit Louis ², Anne-Cécile Roger ², Philippe Trens ¹ and Fabrice Salles ^{1,*}

^a ICGM, Univ Montpellier, CNRS, ENSCM, Montpellier, France

^b ICPEES, Univ Strasbourg, CNRS, ECPM, Strasbourg, France

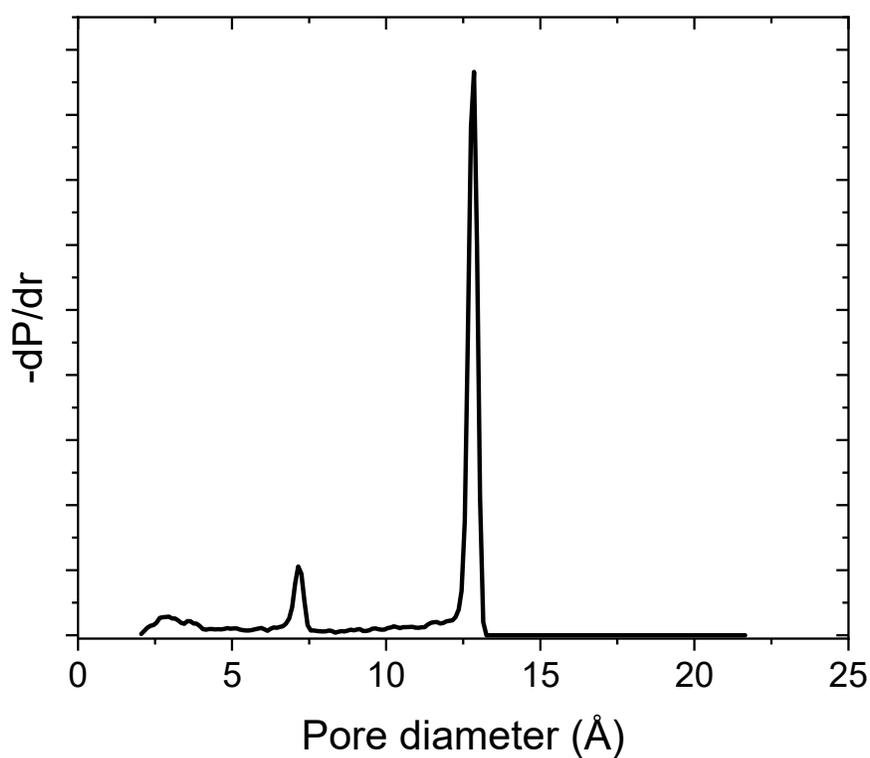
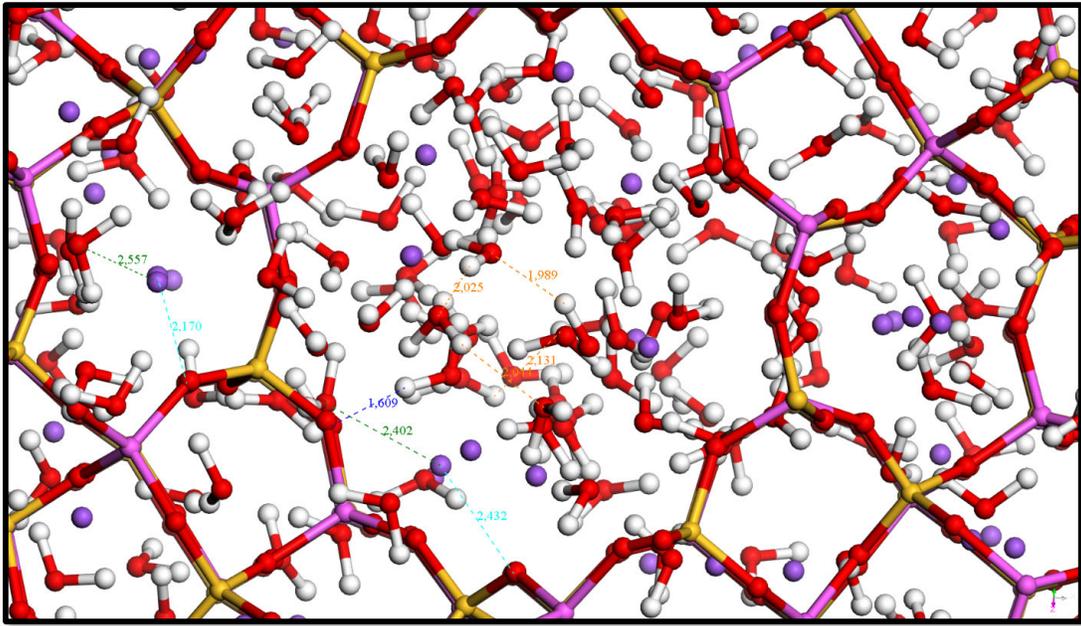
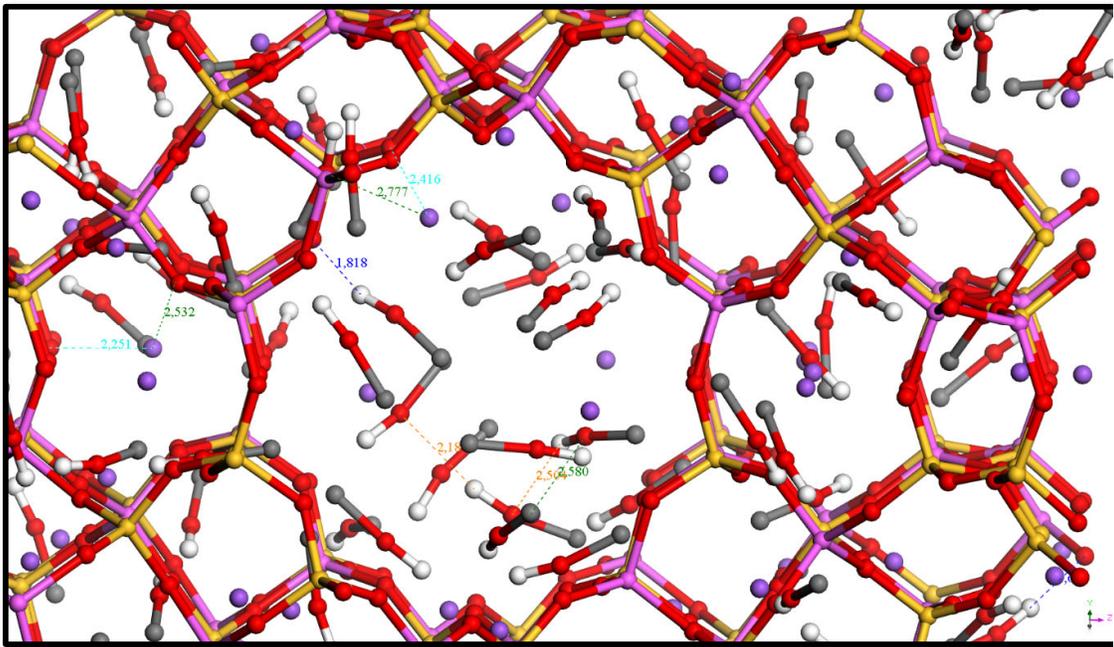


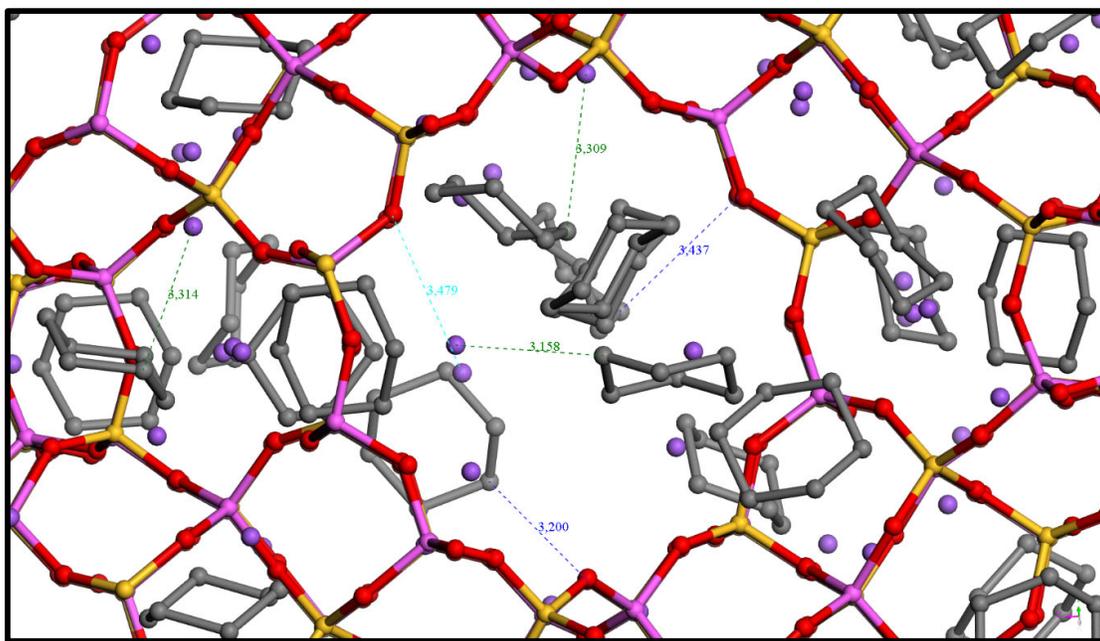
Figure S1. Pore size distribution obtained from the crystal structure using the methodology developed by Gelb and Gubbins (Gelb, L. D.; Gubbins, K. E. Pore Size Distributions in Porous Glasses: A Computer Simulation Study. *Langmuir* **1999**, *15*, 305– 308, DOI: 10.1021/la980841865).



(a)



(b)



(c)

Figure S2. Snapshots obtained at the saturation of the simulated sorption isotherms at 25°C in the case of (a) water sorption; (b) methanol sorption; (c) cyclohexane sorption.