

Supporting Information

Insights into the hydrogen bond network topology of phosphoric acid and water systems

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1 Force field benchmarks for H₃PO₄

1.1 Liquid densities

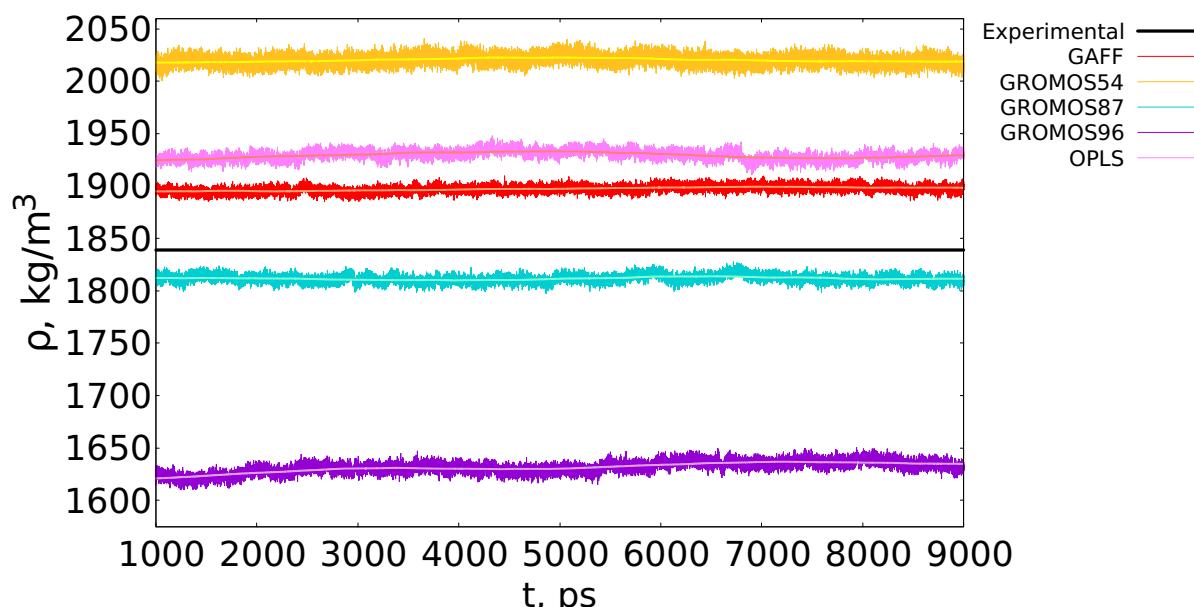


Figure 1: Molecular dynamics simulations of liquid H₃PO₄ in NPT ensemble. The experimental density is marked by a black line.

1.2 Radial Distribution Functions (RDF)

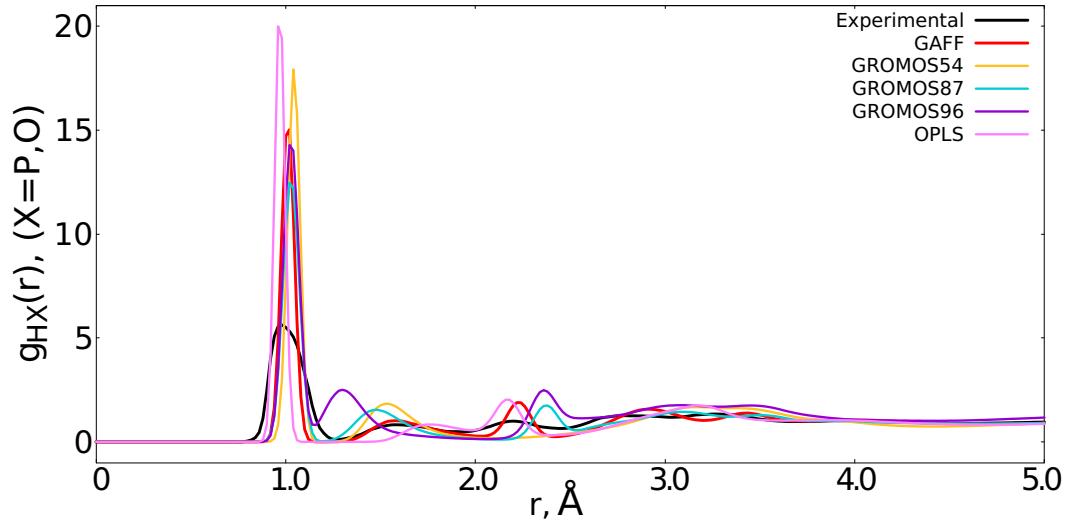


Figure 2: Molecular dynamics simulated $g_{HX}(r)$, ($X = P, O$) RDFs of liquid H_3PO_4 in NPT ensemble.

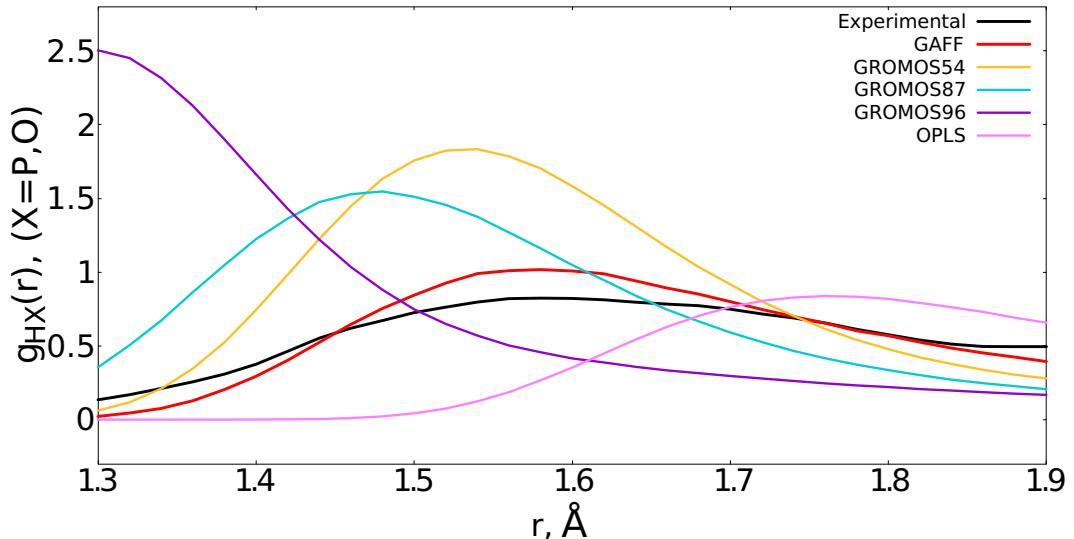


Figure 3: Molecular dynamics simulated $g_{HX}(r)$, ($X = P, O$) RDFs of liquid H_3PO_4 in NPT ensemble. Hydrogen bonding region between 1.3 Å and 1.9 Å.