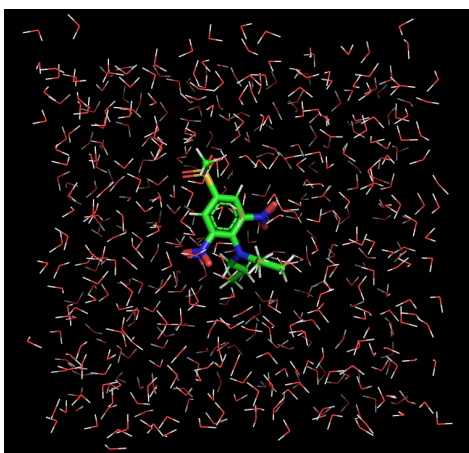


Experiments/Simulations Log

08/29/2024

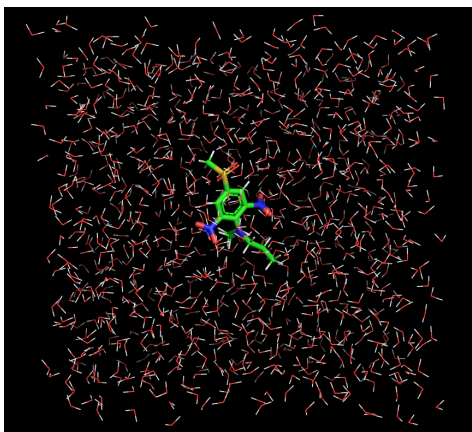
- SFEs - **Test water models**
 - Molecule CC(C)C
 - System size: 1000 total (999 waters)
 - Experiment: 9.6232 +/- 0.8368000000000001 kJ/mol
 - **Tip3p**
 - Calculation: 10.6933196676346 +/- 0.2286284239107238 kJ/mol
 - # states solvent 1: 23
 - # states solvent 2: 2
 - Wall time: 03:18:26
 - **Tip3p-fb**
 - Calculation: 12.1794553081268 +/- 0.22931099803079408 kJ/mol
 - # states solvent 1: 23
 - # states solvent 2: 2
 - Wall time: 03:18:45
 - Tip4p-ew
 - Pending: ERROR - yank.pipeline - Atom number mismatch: solvent_1.xml has 4010 atoms; solvent_1.pdb has 3011 atoms.
 - Calculation:
 - # states solvent 1:
 - # states solvent 2:
 - Wall time:
 - Tip4p-fb
 - Pending: ERROR - yank.pipeline - Atom number mismatch: solvent_1.xml has 4010 atoms; solvent_1.pdb has 3011 atoms.
 - Calculation:
 - # states solvent 1:
 - # states solvent 2:
 - Wall time:
 - **OPC3**
 - Calculation: 11.566535903612137 +/- 0.252.78288110814788 kJ/mol
 - # states solvent 1: 23
 - # states solvent 2: 2
 - Wall time: 03:15:29

- OPC
 - Pending: ERROR - yank.pipeline - Atom number mismatch: solvent_1.xml has 4010 atoms; solvent_1.pdb has 3011 atoms.
 - Calculation:
 - # states solvent 1:
 - # states solvent 2:
 - Wall time:
- Gopal
 - Pending: ERROR - yank.pipeline - Atom number mismatch: solvent_1.xml has 4010 atoms; solvent_1.pdb has 3011 atoms.
 - Calculation:
 - # states solvent 1:
 - # states solvent 2:
 - Wall time:
- SFEs - Test box size
 - CCCN(CCC)c1c([N+](=O)[O-])cc(S(C)(=O)=O)cc1[N+](=O)[O-] box size
 - Experiment: -33.38832 +/- 8.07512 kJ/mol
 - 500



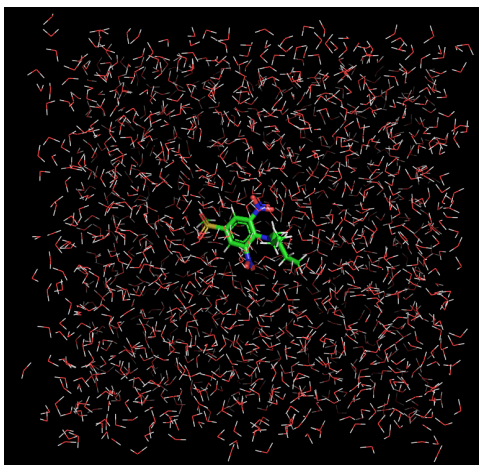
- - Calculated: -56.30199980990216 +/- 0.3238062362782637 kJ/mol
 - # of states solvent 1: 52
 - # of states solvent 2: 5
 - Wall time: 07:17:15

■ 1000



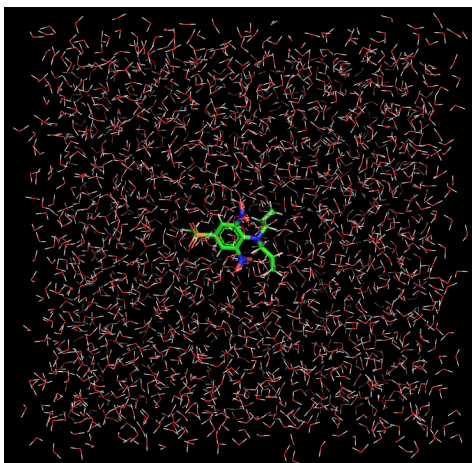
-
- Calculated: -56.73590447773604 +/- 0.3280576327668656 kJ/mol
- # of states solvent 1: 52
- # of states solvent 1: 5
- Wall time: 07:52:49

■ 1500



-
- Calculated: -55.75292687091854 +/- 0.31635809320505626 kJ/mol
- # of states solvent 1: 53
- # of states solvent 2: 5
- Wall time: 08:52:34

- 2000



-
- Calculated: -55.92478472792014 +/- 346.9515666545986 kJ/mol
- # of states solvent 1: 52
- # of states solvent 2: 5
- Wall time: 09:01:28

08/28/2024

- SFEs
 - Test different water models with small molecule
 - Molecule CC(C)C
 - System size: 1000 total (999 waters)
 - Running:
 - Tip3p
 - Tip3p-fb
 - Tip4p-ew
 - Tip4p-fb
 - OPC3
 - OPC
 - gopal
 - Test different box sizes with large molecule
 - Molecule: CCCN(CCC)c1c([N+](=O)[O-])cc(S(C)(=O)=O)cc1[N+](=O)[O-]
 - Water model: tip3p
 - Running:
 - 500
 - 1000
 - 1500
 - 2000
 - To-do:
 - Test with hexane to check for phase separation