**DOTAP validation.**

*The bilayer area per lipid (APL) and bilayer thickness (BT) were compared to experiments and AA simulations.* *The DOTAP parameters can be found online at* ‘<http://cgmartini.nl/index.php/force-field-parameters/lipids2/350-lipid-details>’.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Property** | **Mean** | **SEM** |
| **CG** | APL(nm2) | .70\* | 4.14E-05 |
| **AA\*\*** | APL(nm2) | .64 | 1.00E-02 |
| **CG** | BT(nm) | .38\* | 4.15E-04 |
| **AA\*\*** | BT(nm) | .39 | 5.00E-02 |
| **Experimental\*\*\*** | BT(nm) | .37 | 2.00E-01 |

\*The rounding error was larger than the SEM.

\*\* [Pokorna, S., Jurkiewicz, P., Cwiklik, L., Vazdar, M. & Hof, M. Interactions of monovalent salts with cationic lipid bilayers. *Faraday Discuss.* **160**, 341–58; discussion 389–403 (2013).](http://paperpile.com/b/Wdcx4d/0W9At)

\*\*\* [Leonenko, Z. V. & Cramb, D. T. Revisiting lipid – general anesthetic interactions (I): Thinned domain formation in supported planar bilayers induced by halothane and ethanol. *Can. J. Chem* **82**, 1128–1138 (2004).](http://paperpile.com/b/Wdcx4d/c8IFe)