

## List of Abbreviations

AMBER	Assisted Model Building and Energy Refinement
BW	Bulk Water
Carb	Carbonyl
CC	Correlation Coefficient
CHARMM	Chemistry at Harvard Macromolecular Mechanics
COM	Centre Of Mass
CPK	Corey Pauling Koltun
DMPC	1,2-DiMyristoyl-sn-glycero-3-Phospho Choline
DOPC	Dioleoylphosphatidylcholine
DPPC	1,2-DiPalmitoyl-sn-glycero-3-Phospho Choline
DLS	Dynamic Light Scattering
DSC	Differential Scanning Calorimetry
FF	Force Fields
FFT	Fast Fourier Transform
FTIR	Fourier Transform Infrared Spectroscopy
Glyc	Glycerol
GROMACS	Groningen Machine for Chemical Simulation
GROMOS	Groningen Molecular Simulation package
HB	Hydrogen Bonding
HBACF	Hydrogen Bond Auto Correlation Function
HDA	High Density Amorphous
HG	Head Group
IR	Infra Red
IW	Interface Water

KWW	Kohlrausch Williams Watts
L-BFGS	Limited memory Broyden Fletcher Goldfarb Shanno
LDA	Low Density Amorphous
LJ	Lennard Jones
LINCS	Linear Constraint Solver
MC	Monte Carlo
MCT	Mode Coupling Theory
MD	Molecular Dynamics
MDGD	Monogalactosyl-Diacylglycerol
MSD	Mean Square Displacement
N	Nitrogen
NGP	Non Gaussian Parameter
nm	Nano Meter
NMR	Nuclear Magnetic Resonance
NPT	Constant number of particles, pressure and temperature
NVT	Constant number of particles, volume and temperature
ns	Nano Second
ODNP	Overhauser Dynamic Nuclear Polarization
OPC3	Optimal Point Charge 3 point
OPC4	Optimal Point Charge 4 point
P	Phosphorus
PBC	Periodic Boundary Conditions
PC	Phosphatidyl Choline
PDT	Protein Dynamical Transition
PME	Particle Mesh Ewald
PO	Phosphate
POPC	1-Palmitoyl-2-Oleoyl-sn-glycero-3-Phospho Choline
POPE	1-Palmitoyl-2-Oleoyl-sn-glycero-3-Phospho Ethanolamine

ps	Pico Second
QENS	Quasi Elastic Neutron Scattering
RACF	Reorientational Auto Correlation Function
RDF	Radial Distribution Function
RF	Retardation Factor
SISF	Self Intermediate Scattering Function
SPC	Simple Point Charge
SPC/E	Simple Point Charge / Extended
TIP3P	Transferable Intermolecular Potential 3 Point
TIP4P/2005	Transferable Intermolecular Potential 4 Point
TIP5P	Transferable Intermolecular Potential 5 Point
VACF	Velocity Auto Correlation Function
VDW	van der Waals
VRT	Vibration Rotation Tunneling
VSFG	Vibrational Sum Frequency Generation
WC	Without Constraints

