This journal is © the Owner Societies 2010

Supplementary Material

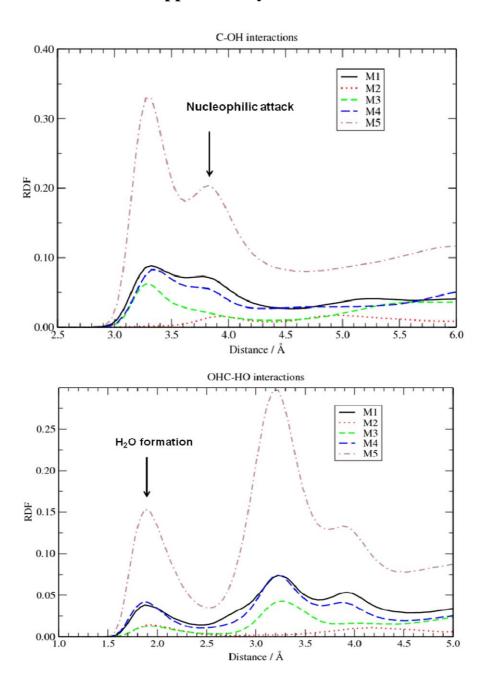


Figure 1. Radial distribution functions (RDFs) relative to the interacting particles in the esterification reaction. Two distinct peaks are characteristic of this process. (Upper graph) One at 3.7 Å indicates the approaching distance between an oxygen atom (OH) in a hydroxyl group and a carbon atom (C) in a COOH group during the nucleophilic attack. (Lower graph) A second peak at 1.9 Å corresponds to the interaction between a hydrogen atom (HO) in the hydroxyl group and an oxygen (OHC) in the hydroxyl belonging to the -COOH group to form

Supplementary Material (ESI) for PCCP

This journal is © the Owner Societies 2010

one water molecule. Five different surface density values have been considered (M1-M5) from higher to lower values.

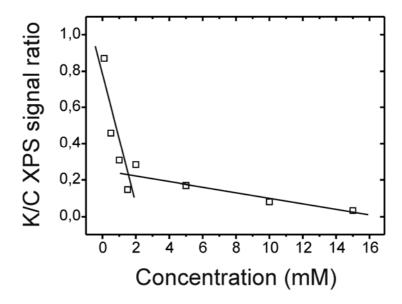


Figure 2. XPS K/C signal ratio evolution versus preparation solution concentration of 9(10),16-Dyhydroxypalmitic acid in chloroform. The break point indicates full monolayer formation on mica above 2 mM. This profile is considered as a reference for aleuritic acid behaviour based on the similarities between both molecules.