

Figure 1: All headgroup dihedrals are off

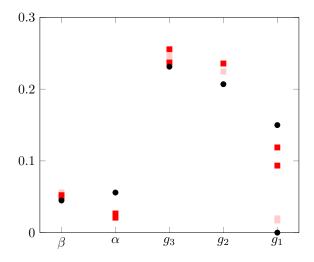


Figure 2: All headgroup dihedrals, except the C–C–C–O improper dihedral near  $g_1,\,g_2,\,g_3$ , are off. The faded out ticks are the results from Fig. 1

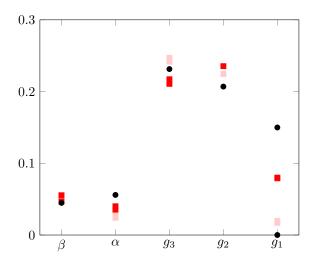


Figure 3: All headgroup dihedrals, except the two starting from  $g_1$ ,  $g_2$  down the chains, are off. The faded out ticks are the results from Fig. 1

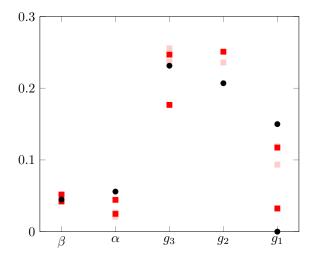


Figure 4: All headgroup dihedrals, except the C–C–C–O improper dihedral near  $g_1$ ,  $g_2$ ,  $g_3$  and the two starting from  $g_1$ ,  $g_2$  down the chains, are off. The faded out ticks are the results from Fig. 2

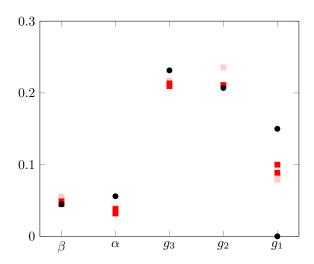


Figure 5: All headgroup dihedrals, the two starting from  $g_1$ ,  $g_2$  down the chains and the one linking  $g_1$ ,  $g_2$  and their oxygens, are off. The faded out ticks are the results from Fig. 3