

Fig. S1. Species distribution diagrams for maltol **a**, thiomaltol **b**, DMHP **c** and DMHTP **d**. $C_L = 2 \times 10^{-3}$ M

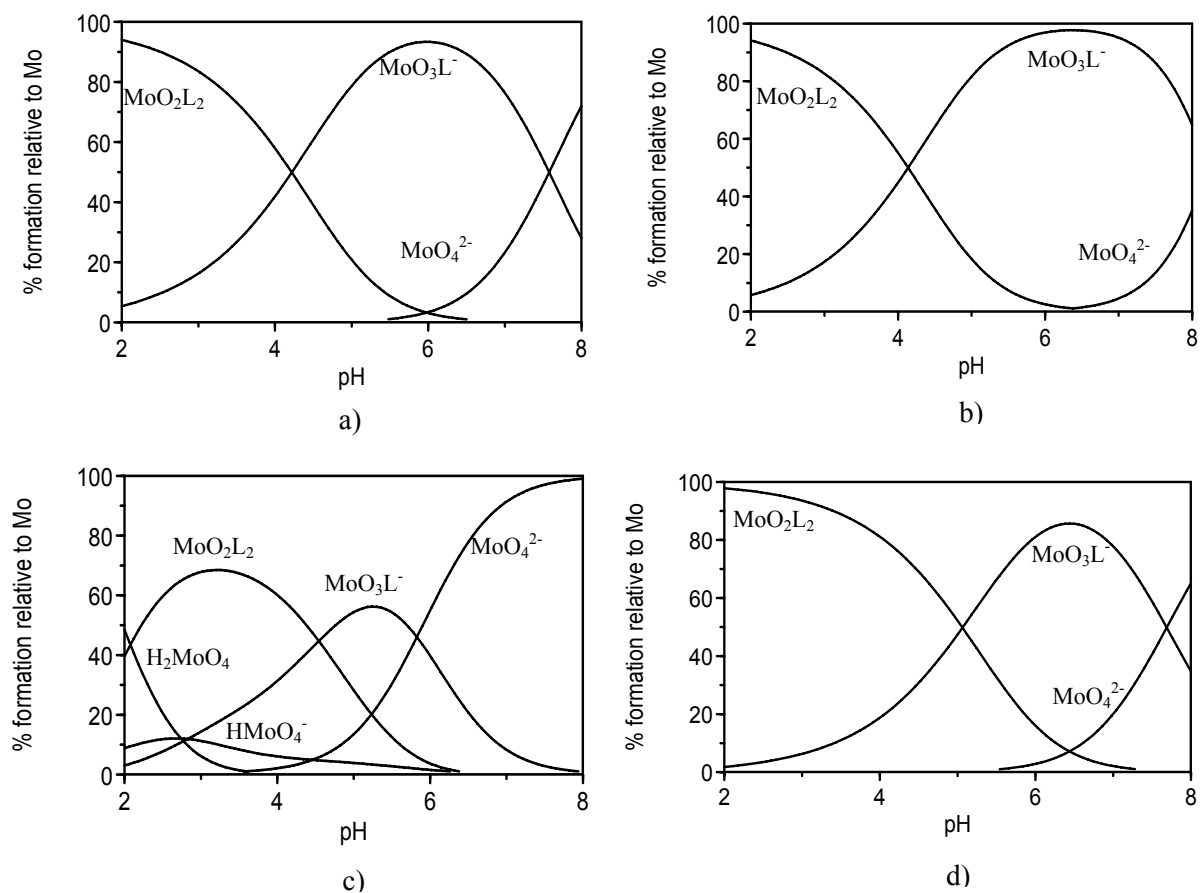


Fig. S2. Species distribution diagrams for the Mo(VI) systems with a) maltol; b) thiomaltol; c) DMHP; d) DMHTP ($C_M = 2.52 \times 10^{-5}$ M, $C_L/C_M = 2$).