

Figure 5: P_S^{sat} vs partial charge of the phenolic carbon of the nitrophenols.

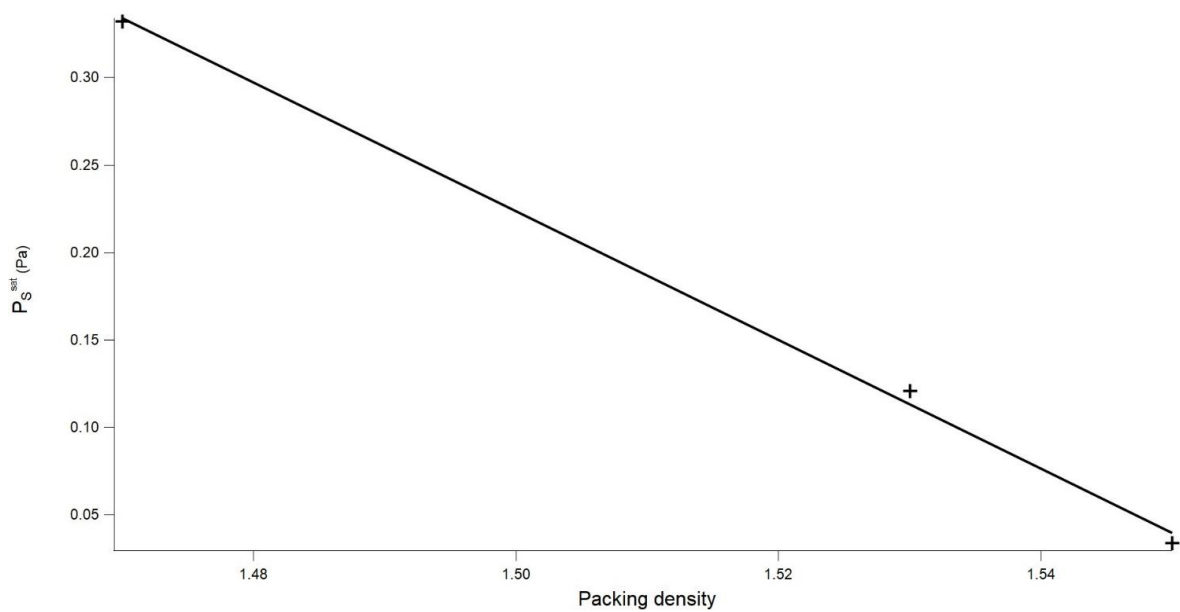


Figure 7: P_S^{sat} vs Packing density of the nitrobenzaldehydes

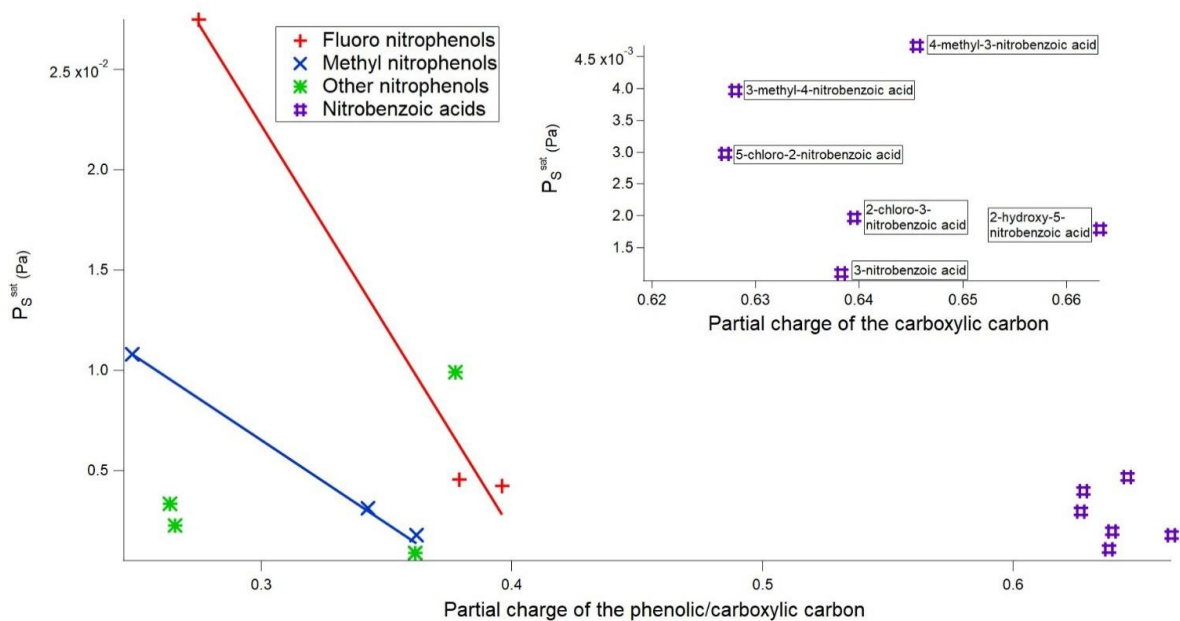


Figure 8: P_S^{sat} vs partial charge of the phenolic/carboxylic carbon of the nitrophenols and nitrobenzoic acids.

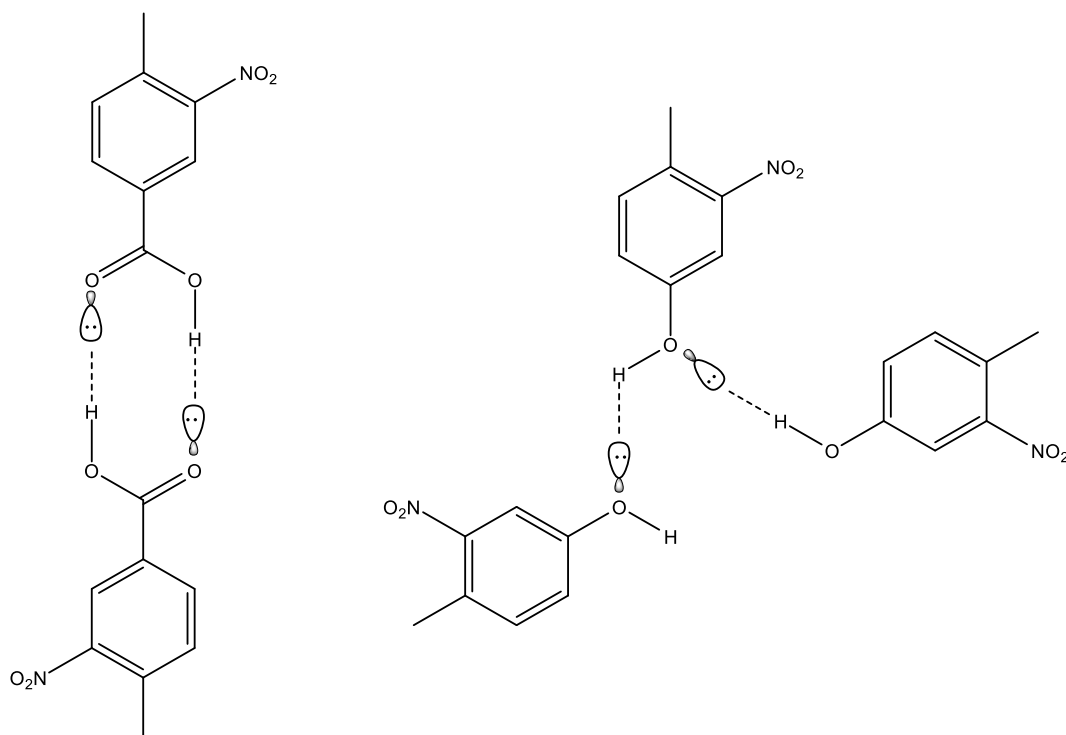


Figure 9: Diagram demonstrating how the a carboxylic acid functionality allows a molecule to dimerise using H-bonds in 4-methyl-3-nitrobenzoic acid (left) whilst a hydroxyl group only allows for hydrogen bonding to two other molecules with no opportunity to dimerise in 4-methyl-3-nitrophenol (right).