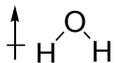


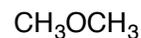
For the molecules below:

- Using the correct combination of in plane, wedged and dashed lines **re-draw** the compounds below in three-dimensional form.
- **Check the boxes** below the molecule to indicate whether the compound has a molecular dipole moment ($\mu=0$ or $\mu\neq 0$).

- For those compounds that have dipole moments indicate the direction of the dipole 



$\mu = 0$ $\mu \neq 0$



$\mu = 0$ $\mu \neq 0$



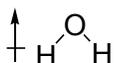
$\mu = 0$ $\mu \neq 0$

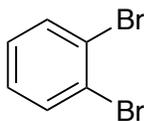


$\mu = 0$ $\mu \neq 0$

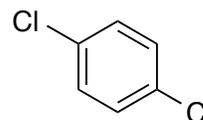
For the molecules below:

- **Check the boxes** below the molecule to indicate whether the compound has a molecular dipole moment ($\mu=0$ or $\mu\neq 0$).

- For those compounds that have dipole moments indicate the direction of the dipole 



$\mu = 0$ $\mu \neq 0$



$\mu = 0$ $\mu \neq 0$