

Practice Quiz: Covalent Bonding

- From this list: CF_2H_2 , PO_2^- , SO_3^{2-} , FCN
 - Which contains 2 pi bonds?
 - Which contains 4 sigma bonds?
 - Which requires resonance structures?

- Calculate the energy needed to break all the bonds in CH_3NH_2

Bond Dissociation Energies at 298 K			
Bond	kJ/mol	Bond	kJ/mol
Cl—Cl	242	$\text{N}\equiv\text{N}$	945
C—C	345	O—H	467
C—H	416	C—O	358
C—N	305	C=O	745
H—I	299	O=O	498
H—N	391		

- Name the following compounds:

- N_2O_3
- PCl_5
- NO
- Na_2S