

NAME: _____ Complete the Table

Draw the Lewis Dot structure for the substance	State the substance's <u>ICAO</u>	Indicate the <u>geometry</u> about each atom in the substance	Is the substance <u>polar</u> or <u>nonpolar</u> ?	Is the substance <u>soluble</u> or <u>insoluble</u> in water?
H ₂ O (water)				
NH ₃ (ammonia gas)				
HF (hydrofluoric acid)				
HCl (hydrogen chloride)				
H ₂ S (dihydrogen sulfide)				
CO (carbon monoxide)				
SO ₂ (sulfur dioxide)				

CH_4 (methane gas)				
C_2H_4 (ethene gas)				
F_2 (fluorine gas)				
I_2 (iodine solid)				
$\text{CH}_3\text{CH}_2\text{CH}_2\text{NH}_2$ (n-propyl amine)				
$(\text{CH}_3)_3\text{N}$ (trimethyl amine)				
$(\text{CH}_3\text{CH}_2)_2\text{O}$ (diethyl ether)				
$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$ (n-butanol)				