

Molecular Formula	Lewis Structure	Geometry (Page 200)	Polar or Non-Polar
1 SeO ₄ ⁻² 32		tetrahedral	NON
2 CO ₃ ⁻² 24		trigonal planar	NON
3 NH ₂ Cl 14		triangular pyramid	polar
4 NO ₃ ⁻¹ 24		trigonal planar	NON
5 ICl ₄ ⁻¹ 36		square planar	non
6 CH ₃ Br 14		tetrahedral	polar
7 SO ₂ 18		bent or angular (120° angles)	polar
8 PF ₃ 26		trigonal pyramid	polar
9 CO ₃ ⁻² 24		planar	non

Molecular Formula	Lewis Structure	Geometry (Page 200)	Polar or Non-Polar
10 SCl ₂ 20	$\text{:}\ddot{\text{Cl}}-\ddot{\text{S}}-\ddot{\text{Cl}}\text{:}$	bent	polar
11 OCN ⁻¹ 16	$\left[\ddot{\text{O}}=\text{C}=\ddot{\text{N}} \right]^{-1}$	linear	polar
12 N ₂ H ₂ 12	$\text{H}-\ddot{\text{N}}=\ddot{\text{N}}-\text{H}$? angular	polar
13 CH ₃ OH 14	$\begin{array}{c} \text{H} \\ \\ \text{H}-\text{C}-\ddot{\text{O}}-\text{H} \\ \\ \text{H} \end{array}$	tetrahedral	polar
14 NO ₂ ⁻¹ 18	$\left[\ddot{\text{O}}-\ddot{\text{N}}=\ddot{\text{O}} \right]^{-1}$	Bent or angular with 120° bond angles	polar
15 PBr ₃ 26	$\begin{array}{c} \text{:}\ddot{\text{Br}} \quad \ddot{\text{Br}}\text{:} \\ \diagdown \quad / \\ \text{P} \\ / \quad \diagdown \\ \text{:}\ddot{\text{Br}} \quad \ddot{\text{Br}}\text{:} \end{array}$	triangular pyramid	polar
16 C ₂ H ₄ 12	$\begin{array}{c} \text{H} \quad \quad \text{H} \\ \diagdown \quad / \\ \text{C}=\text{C} \\ / \quad \diagdown \\ \text{H} \quad \quad \text{H} \end{array}$	linear	non-polar
17 HCO ₂ ⁻¹ 18	$\left[\begin{array}{c} \text{:}\ddot{\text{O}}\text{:} \\ \\ \text{H}-\text{C}=\ddot{\text{O}} \\ \\ \text{:}\ddot{\text{O}}\text{:} \end{array} \right]^{-1}$	trigonal planar	polar
18 SO ₄ ⁻² 32	$\left[\begin{array}{c} \text{:}\ddot{\text{O}}\text{:} \\ \\ \text{:}\ddot{\text{O}}\text{:}-\text{S}-\text{:}\ddot{\text{O}}\text{:} \\ \\ \text{:}\ddot{\text{O}}\text{:} \end{array} \right]^{-2}$	tetrahedral	NON

Name _____ Lewis Structures, Molecular Geometry, and Polarity II

Molecular Formula	Lewis Structure	Geometry (Page 200)	Polar or Non-Polar
1 SeO_4^{-2}			
2 CO_3^{-2}			
3 NH_2Cl			
4 NO_3^{-1}			
5 ICl_4^{-1}			
6 CH_3Br			
7 SO_2			
8 PF_3			
9 CO_3^{-2}			

Molecular Formula	Lewis Structure	Geometry (Page 200)	Polar or Non-Polar
10 SCl_2			
11 OCN^{-1}			
12 N_2H_2			
13 CH_3OH			
14 NO_2^{-1}			
15 PBr_3			
16 C_2H_4			
17 HCO_2^{-1}			
18 SO_4^{-2}			