

### Assignment: Molecular Geometry and Intermolecular Forces

Molecule	Lewis Structure	Total Number of Non-bonding Electron Domains	Total Number of Bonding Electron Domains	Total Number of Electron Domains	Electron Domain Geometry (AX <sub>4</sub> )	Molecular Geometry and Bond Angle	Polar or Non Polar?	IMFA
SO <sub>4</sub> <sup>2-</sup>								
HCHO								
CH <sub>4</sub>								

Molecule	Lewis Structure	Total Number of Non-bonding Electron Domains	Total Number of Bonding Electron Domains	Total Number of Electron Domains	Electron Domain Geometry (AX <sub>4</sub> )	Molecular Geometry and Bond Angle	Polar or Non Polar?	IMFA
CH <sub>3</sub> Cl								
CH <sub>2</sub> Cl <sub>2</sub>								
CHCl <sub>3</sub>								

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Molecule	Lewis Structure	Total Number of Non-bonding Electron Domains	Total Number of Bonding Electron Domains	Total Number of Electron Domains	Electron Domain Geometry (AX <sub>4</sub> )	Molecular Geometry and Bond Angle	Polar or Non Polar?	IMFA
CCl <sub>4</sub>								
PH <sub>3</sub>								
PH <sub>4</sub> <sup>+</sup>								

Molecule	Lewis Structure	Total Number of Non-bonding Electron Domains	Total Number of Bonding Electron Domains	Total Number of Electron Domains	Electron Domain Geometry (AX <sub>4</sub> )	Molecular Geometry and Bond Angle	Polar or Non Polar?	IMFA
PH <sub>2</sub> <sup>-</sup>								
XeF <sub>4</sub>								
XeO <sub>2</sub>								

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XEO <sub>4</sub>								
RnF <sub>4</sub>								
HCOO <sup>-</sup>								

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Molecule	Lewis Structure	Total Number of Non-bonding Electron Domains	Total Number of Bonding Electron Domains	Total Number of Electron Domains	Electron Domain Geometry (AX <sub>4</sub> )	Molecular Geometry and Bond Angle	Polar or Non Polar?	IMFA
BF <sub>3</sub>								
HClO <sub>4</sub>								
C <sub>2</sub> H <sub>5</sub> OH								

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Molecule	Lewis Structure	Total Number of Non-bonding Electron Domains	Total Number of Bonding Electron Domains	Total Number of Electron Domains	Electron Domain Geometry (AX <sub>4</sub> )	Molecular Geometry and Bond Angle	Polar or Non Polar?	IMFA
HCO <sub>3</sub> <sup>-1</sup>								
CO <sub>3</sub> <sup>2-</sup>								
NO <sub>2</sub> <sup>-</sup>								

Molecule	Lewis Structure	Total Number of Non-bonding Electron Domains	Total Number of Bonding Electron Domains	Total Number of Electron Domains	Electron Domain Geometry (AX <sub>4</sub> )	Molecular Geometry and Bond Angle	Polar or Non Polar?	IMFA
NO <sub>2</sub> <sup>+</sup>								
NO <sub>2</sub>								
N <sub>2</sub> O <sub>4</sub>								

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