

17: Molecular Geometry - VSEPR

Key Structure Terms

- Valence Shell:** Electrons in the outermost shell that are involved in bonding.
- Lewis Structure:** A 2D representation of a molecule and its bonds.
- Lone Pair:** Pair of electrons not being shared in a bond.
- Bonding Pair:** Pair of electrons used to make a bond. Both atoms sharing the electrons can "count" them in their valence shell.
- Single bond:** One pair of shared electrons.
- Double bond:** Two pairs of shared electrons. Shorter and stronger than a single bond.
- Triple bond:** Three pairs of shared electrons. Shorter and stronger than a double bond.
- Valence Shell Electron Pair Repulsion Theory (VSEPR):** Bonds and lone pairs are electrons, all electrons are negative, negative things repel other negative things, therefore all bonds and lone pairs arrange themselves in 3D as far away from each other as possible.
- Electron Geometry:** 3D structure of a molecule determined by counting the electron regions around a central atom (bonds and lone pairs).
- Electron Region:** Each bond (single, double or triple) and lone pair count as "1" electron region.
- Molecular Geometry:** 3D structure determined by the atoms bonded to the central atom.
- Ligand:** Atoms bonded to the central atom.

VSEPR Theory and Geometry

Electron geometry is determined by looking at the number of electron regions around the central atom.

Molecular geometry is determined by looking at the number of atoms bonded to the central atom (ligand) and the number of lone pairs around the central atom.

Electronic Geometry Mnemonic: Linear(2) – Trigonal Planar(3) – Tetrahedral(4) – Trigonal Bipyramidal(5) – Octahedral(6) = "Long DIP To TRIBE Overseas."

Examples:



Electron geometry: Tetrahedron
Molecular geometry: Tetrahedron



Electron geometry: Tetrahedron
Molecular geometry: Trigonal pyramidal

Molecular Geometries

A = central atom; X = ligands; E = lone pairs

Electron Regions	Molecular Formula	Name	Shape
2	AX_2 (BeCl ₂ , CO ₂)	Linear	
3	AX_3 (BF ₃ , CO ₃ ²⁻ , NO ₃ ⁻ , SO ₃)	Trigonal Planar	
	AX_2E (NO ₂ ⁺ , SO ₂ , O ₃)	Bent	
4	AX_4 (CH ₄ , NH ₄ ⁺ , PO ₄ ³⁻ , SO ₄ ²⁻ , ClO ₄ ⁻)	Tetrahedron	
	AX_3E (NH ₃ , H ₃ O ⁺ , PCl ₃ , SO ₃ ²⁻)	Trigonal pyramidal	
	AX_2E_2 (H ₂ O, ClO ₂ , OF ₂ , SCl ₂)	Bent	
5	AX_5 (PCl ₅)	Trigonal bipyramidal	
	AX_4E (SF ₄ , SCl ₅)	See-saw	
	AX_3E_2 (ClF ₃ , ICl ₃)	T-shaped	
	AX_2E_3 (XeF ₂ , I ₃ ⁻)	Linear	
6	AX_6 (SF ₆ , PCl ₆ ⁻)	Octahedron	
	AX_5E (BrF ₅ , IF ₅)	Square pyramidal	
	AX_4E_2 (XeF ₄)	Square planar	

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Molecular Structure And Bonding Cheat Sheet

Liying Dong



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common polymerization techniques Polycondensation and non chain polymerizations including dendrimer synthesis and various click procedures are covered in Volume 5 Volume 6 focuses on several aspects of controlled macromolecular architectures and soft nano objects including hybrids and bioconjugates Many of the achievements would have not been possible without new characterization techniques like AFM that allowed direct imaging of single molecules and nano objects with a precision available only recently An entirely new aspect in polymer science is based on the combination of bottom up methods such as polymer synthesis and molecularly programmed self assembly with top down structuring such as lithography and surface templating as presented in Volume 7 It encompasses polymer and nanoparticle assembly in bulk and under confined conditions or influenced by an external field including thin films inorganic organic hybrids or nanofibers Volume 8 expands these concepts focusing on applications in advanced technologies e g in electronic industry and centers on combination with top down approach and functional properties like conductivity Another type of functionality that is of rapidly increasing importance in polymer science is introduced in volume 9 It deals with various aspects of polymers in biology and medicine including the response of living cells and tissue to the contact with biofunctional particles and surfaces The last volume is devoted to the scope and potential provided by environmentally benign and green polymers as well as energy related polymers They discuss new technologies needed for a sustainable economy in our world of limited resources Provides broad and in depth coverage of all aspects of polymer science from synthesis polymerization properties and characterization methods and techniques to nanostructures sustainability and energy and biomedical uses of polymers Provides a definitive source for those entering or researching in this area by integrating the multidisciplinary aspects of the science into one unique up to date reference work Electronic version has complete cross referencing and multi media components Volume editors are world experts in their field including a Nobel Prize winner

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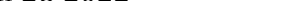
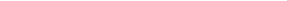
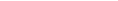
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