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Operations Resulting From A  $C_n$  Symmetry Axis Comprise A Group That Is Isomorphic To The Cyclic Group Of Order  $n$ . If A Molecule Contains No Other Symmetry Elements Than  $C_n$ , This Set Constitutes The Symmetry Point Group For That Molecu Apr 3th, 2024

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### **Chapter 3 - Molecular Symmetry**

Symmetry Point Groups •Symmetry Of A Molecule Located On Symmetry Axes, Cut By Planes Of Symmetry, Or Centered At An Inversion Center Is Known As Point Symmetry .  
•Collections Of Symmetry Operations Constitute Mathematical Groups . •Each Symmetry Point Group Has A Particular Designation.  $C_n$ ,  $C_{nh}$ ,  $C_{nv}$ ,  $D_n$ ,  $D_{nh}$ ,  $D_{nd}$ ,  $S_{2n}$ ,  $C_{\infty v}$ ,  $D_{\infty h}$  Jan 3th, 2024

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's Point Group Atom X's P X And P Y Atomic Orbitals Symmetry Label Given To Identify The P X And P Y Orbitals Of Atom X (central Atom) Symmetry Label Given To Identify The P Z Orbital Of Atom X (central Atom) Atom X's P Z Atomic Orbitals Atom X's S-orbital S-orbital Symmetry Label  $\infty$  C 2 1 -1 Apr 1th, 2024

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