|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name of the compound | No of electron groups around central atom | No of Lone pairs for central atom | Electron pair arrangement around central atom/shape of the molecule | Lewis dot structure | Approximate bond angles (º) | Polarity | Hybridization of central atom | Symmetry elements | Point groups |
| CS2 |  |  |  |  |  |  |  |  |  |
| HCN |  |  |  |  |  |  |  |  |  |
| BCl3 |  |  |  |  |  |  |  |  |  |
| SO3 |  |  |  |  |  |  |  |  |  |
| COCl2 |  |  |  |  |  |  |  |  |  |
| SO2 |  |  |  |  |  |  |  |  |  |
| CCl4 |  |  |  |  |  |  |  |  |  |
| NF3 |  |  |  |  |  |  |  |  |  |
| XeO3 |  |  |  |  |  |  |  |  |  |
| SCl2 |  |  |  |  |  |  |  |  |  |
| PF5 |  |  |  |  |  |  |  |  |  |
| TeF4 |  |  |  |  |  |  |  |  |  |
| IOF3 |  |  |  |  |  |  |  |  |  |
| IF3 |  |  |  |  |  |  |  |  |  |
| XeF2 |  |  |  |  |  |  |  |  |  |
| SCl6 |  |  |  |  |  |  |  |  |  |
| Mo(CO)6 |  |  |  |  |  |  |  |  |  |
| XeOF4 |  |  |  |  |  |  |  |  |  |
| IF5 |  |  |  |  |  |  |  |  |  |
| XeF4 |  |  |  |  |  |  |  |  |  |
| IF7 |  |  |  |  |  |  |  |  |  |
| XeF6 |  |  |  |  |  |  |  |  |  |