

Molecular Shape and Polarity Worksheet

The following table contains correct and incorrect information. Check the information for each molecule and if it is incorrect, correct it and explain the error.

| Chemical Formula | Chemical Name | Types of Bonds Present | Name of Shape | Polar Molecule (Y/N) |
|-------------------|---------------------------|--------------------------|--------------------|----------------------|
| O ₂ | Oxygen gas | Double nonpolar covalent | linear | Yes |
| BCl ₃ | Boron (III) trichloride | Polar covalent | Trigonal pyramidal | Yes |
| PH ₃ | Phosphorous (III) hydride | Nonpolar covalent | Triangular planar | No |
| SCl ₂ | Sulphur dichlorine | Double polar covalent | bent | No |
| MgO ₂ | Magnesium (II) Oxide | Polar covalent | tetrahedral | No |
| SiS ₂ | Sulphur silicon | Polar covalent | Linear bent | No |
| Cl ₄ | Carbonous iodide | Polar covalent | tetrahedral | Yes |
| SeCl ₂ | Selenium IIV) chloride | Nonpolar covalent | Trigonal pyramidal | No |