

Assignment 2 : Covalent Compounds: Nomenclature. Answers

Part A. Write the names for each

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|--|---|
| 1) As_4O_{10}
Tetrarsenic decaoxide | 16) UF_6
Uranium (VI) fluoride |
| 2) BrO_3
Bromine trioxide | 17) OF_2
Oxygen difluoride |
| 3) BN
Boron monnitride | 18) ClO_2
Chlorine dioxide |
| 4) N_2O_3
Dinitrogen trioxide | 19) SiO_2
Silicon dioxide |
| 5) NI_3
Nitrogen triiodide | 20) BF_3
Boron trifluoride |
| 6) SF_6
Sulfur hexafluoride | 21) N_2S_5
Dinitrogen pentasulfide |
| 7) XeF_4
Xenon tetrafluoride | 22) CO_2
Carbon dioxide |
| 8) PCl_3
Phosphorus trichloride | 23) SO_3
Sulfur trioxide |
| 9) CO
Carbon monoxide | 24) XeF_6
Xenon hexafluoride |
| 10) PCl_5
Phosphorus pentachloride | 25) KrF_2
Krypton difluoride |
| 11) P_2O_5
Diphosphorus pentaoxide | 26) BrF_5
Bromine pentafluoride |
| 12) S_2Cl_2
Disulfur dichloride | 27) SCl_4
Sulfur tetrachloride |
| 13) ICl_2
Iodine dichloride | 28) PCl_3
Phosphorus trichloride |
| 14) SO_2
Sulfur dioxide | 29) XeO_3
Xenon trioxide |
| 15) P_4O_{10}
Tetraphosphorus decaoxide | 30) OsO_4
Osmium (IV) oxide |

Part B. Write the formulas for each.

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|---|---|
| 1) chlorine monoxide
ClO | 16) silicon tetrachloride
SiCl_4 |
| 2) oxygen difluoride
OF_2 | 17) krypton difluoride
KrF_2 |
| 3) boron monophosphide
BP | 18) chlorine monoxide
ClO |
| 4) dinitrogen monoxide
N_2O | 19) silicon dioxide
SiO_2 |
| 5) nitrogen trifluoride
NF_3 | 20) boron trichloride
BCl_3 |
| 6) sulfur tetrachloride
SCl_4 | 21) dinitrogen pentasulfide
N_2S_5 |
| 7) xenon trioxide
XeO_3 | 22) carbon monoxide
CO |
| 8) carbon dioxide
CO_2 | 23) sulfur trioxide
SO_3 |
| 9) diphosphorous pentaoxide
P_2O_5 | 24) dinitrogen trioxide
N_2O_3 |
| 10) phosphorous trichloride
PCl_3 | 25) dinitrogen monoxide
N_2O |
| 11) sulfur dioxide
SO_2 | 26) xenon hexafluoride
XeF_6 |
| 12) bromine pentafluoride
BrF_5 | 27) sulfur hexafluoride
SF_6 |
| 13) disulfur dichloride
S_2Cl_2 | 28) phosphorous pentachloride
PCl_5 |
| 14) boron trifluoride
BF_3 | 29) nitrogen monoxide
NO |
| 15) tetrarsenic decaoxide
As_4O_{10} | 30) bismuth trichloride
BiCl_3 |