

Naming Covalent Compounds

Part 1

Write the formula for each of the following covalent compounds.

- antimony tribromide SbBr₃
- hexaboron silicide B₆Si
- chlorine dioxide ClO₂
- hydrogen iodide HI
- iodine pentafluoride IF₅
- dinitrogen trioxide N₂O₃
- ammonia NH₃
- phosphorus triiodide PI₃
- phosphorus trichloride PCl₃
- dinitrogen pentoxide N₂O₅
- nitrogen triiodide NI₃
- sulfur tetrabromide SBr₄
- selenium hexachloride SeCl₆
- nitrogen monoxide NO
- sulfur dioxide SO₂
- boron trifluoride BF₃
- carbon tetrachloride CCl₄
- arsenic pentabromide AsBr₅
- phosphorus pentachloride PCl₅
- sulfur hexafluoride SF₆

Part 2

Name each of the following covalent compounds.

21. P_4S_5 tetraphosphorus pentasulfide
22. O_2 oxygen gas
23. SeF_6 selenium hexafluoride
24. Si_2Br_6 disilicon hexabromide
25. SCl_4 sulfur tetrachloride
26. CH_4 carbon tetrahydride (methane)
27. B_2Si diboron monosilicide
28. NF_3 nitrogen trifluoride
29. CO carbon monoxide
30. CO_2 carbon dioxide
31. N_2O dinitrogen monoxide
32. NO_2 nitrogen dioxide
33. CF_4 carbon tetrafluoride
34. BCl_3 boron trichloride
35. PCl_5 phosphorus pentachloride
36. SF_6 sulfur hexafluoride
37. S_2O_3 disulfur trioxide
38. N_2O_4 dinitrogen tetroxide
39. CCl_4 carbon tetrachloride
40. OCl_2 oxygen dichloride