

Nomenclature of Molecular Compounds

Write the names for each of the following molecular compounds.

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|--|---|
| 1. SiO_2 <u>silicon dioxide</u> | 2. NO <u>nitrogen monoxide</u> |
| 3. PCl_3 <u>phosphorous trichloride</u> | 4. SF_4 <u>sulfur tetrafluoride</u> |
| 5. SiF_4 <u>silicon tetrafluoride</u> | 6. XeF_4 <u>xenon tetrafluoride</u> |
| 7. N_2O <u>dinitrogen monoxide</u> | 8. SbF_5 <u>antimony pentafluoride</u> |
| 9. SO_3 <u>sulfur trioxide</u> | 10. NH_3 <u>nitrogen trihydride (ammonia)</u> |
| 11. N_2O_5 <u>dinitrogen pentaoxide</u> | 12. SO_2 <u>sulfur dioxide</u> |
| 13. IF_5 <u>iodine pentafluoride</u> | 14. H_2O <u>dihydrogen monoxide (water)</u> |
| 15. SF_6 <u>sulfur hexafluoride</u> | 16. CS_2 <u>carbon disulfide</u> |
| 17. ClO_2 <u>chlorine dioxide</u> | 18. CCl_4 <u>carbon tetrachloride</u> |
| 19. P_4S_3 <u>tetraphosphorus trisulfide</u> | 20. BCl_3 <u>boron trichloride</u> |

Formula Writing for Molecular Compounds

Write the correct formula for each of the compounds listed below.

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| 1. carbon dioxide <u>CO_2</u> | 2. carbon monoxide <u>CO</u> |
| 3. sulfur dioxide <u>SO_2</u> | 4. sulfur trioxide <u>SO_3</u> |
| 5. dinitrogen oxide <u>N_2O</u> | 6. nitrogen monoxide <u>NO</u> |
| 7. dinitrogen trioxide <u>N_2O_3</u> | 8. nitrogen dioxide <u>NO_2</u> |
| 9. dinitrogen tetraoxide <u>N_2O_4</u> | 10. dinitrogen pentaoxide <u>N_2O_5</u> |
| 11. phosphorus pentachloride <u>PCl_5</u> | 12. phosphorus hexachloride <u>P</u> |
| 13. nitrogen trihydride <u>NH_3</u> | 14. sulfur hexachloride <u>SCl_6</u> |
| 15. diphosphorus pentaoxide <u>P_2O_5</u> | 16. carbon tetrachloride <u>CCl_4</u> |
| 17. silicon dioxide <u>SiO_2</u> | 18. carbon disulfide <u>CS_2</u> |
| 19. oxygen difluoride <u>OF_2</u> | 20. phosphorus tribromide <u>PBr_3</u> |

NAMING ACIDS

Name _____

Name the following acids.

1. HNO_3 nitric acid
2. HCl hydrochloric acid
3. H_2SO_4 sulfuric acid
4. H_2SO_3 sulfurous acid
5. $\text{HC}_2\text{H}_3\text{O}_2$ acetic acid
6. HBr hydrobromic acid
7. HNO_2 nitrous acid
8. H_3PO_4 phosphoric acid
9. H_2S hydrosulfuric acid
10. H_2CO_3 carbonic acid

Write the formulas of the following acids.

11. sulfuric acid H_2SO_4
12. nitric acid HNO_3
13. hydrochloric acid HCl
14. acetic acid $\text{HC}_2\text{H}_3\text{O}_2$
15. hydrofluoric acid HF
16. phosphorous acid H_3PO_3
17. carbonic acid H_2CO_3
18. nitrous acid HNO_2
19. phosphoric acid H_3PO_4
20. hydrosulfuric acid H_2S