

Chem 210 – Formulas and Naming Practice

Write formulas for the following compounds:

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| 1. Magnesium sulfide | <u>MgS</u> |
| 2. Sulfur trioxide | <u>SO₃</u> |
| 3. Sodium phosphide | <u>Na₃P</u> |
| 4. Copper(II) oxide | <u>CuO</u> |
| 5. Hydrocyanic acid | <u>HCN</u> |
| 6. Sulfur hexafluoride | <u>SF₆</u> |
| 7. Copper (I) oxide | <u>Cu₂O</u> |
| 8. Tetraphosphorus decoxide | <u>P₄O₁₀</u> |
| 9. Cesium iodide | <u>CsI</u> |
| 10. Hypochlorous acid | <u>HClO</u> |
| 11. Chromium(III) sulfate | <u>Cr₂(SO₄)₃</u> |
| 12. Ammonium bromide | <u>NH₄Br</u> |
| 13. Phosphoric acid | <u>H₃PO₄</u> |
| 14. Oxygen dichloride | <u>OCl₂</u> |
| 15. Ammonium sulfite | <u>(NH₄)₂SO₃</u> |
| 16. Iron (III) hydroxide | <u>Fe(OH)₃</u> |
| 17. Hydrochloric acid | <u>HCl</u> |
| 18. Dinitrogen monoxide | <u>N₂O</u> |
| 19. Chlorous acid | <u>HClO₂</u> |
| 20. Dinitrogen pentoxide | <u>N₂O₅</u> |
| 21. aluminum dichromate | <u>Al₂(Cr₂O₇)₃</u> |
| 22. sodium hydrogen phosphate | <u>Na₂HPO₄</u> |
| 23. nickel (II) cyanide | <u>Ni(CN)₂</u> |
| 24. potassium hydride | <u>KH</u> |
| 25. iron (II) acetate | <u>Fe(CH₃CO₂)₂</u> |

Write names for the following compounds:

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| 26. Na_2SO_3 | <u>sodium sulfite</u> |
| 27. $\text{Fe}_3(\text{PO}_4)_2$ | <u>iron(II) phosphate</u> |
| 28. OsCl_4 | <u>osmium (IV) chloride</u> |
| 29. HBr | <u>hydrobromic acid</u> |
| 30. P_2O | <u>diphosphorus monoxide</u> |
| 31. $\text{Ca}(\text{CN})_2$ | <u>calcium cyanide</u> |
| 32. OF_2 | <u>oxygen difluoride</u> |
| 33. H_2S | <u>hydrosulfuric acid (or hydrogen sulfide)</u> |
| 34. Mn_2O_7 | <u>manganese(VII) oxide</u> |
| 35. PbCl_4 | <u>lead (IV) chloride</u> |
| 36. SeF_4 | <u>selenium tetrafluoride</u> |
| 37. $\text{Re}_2(\text{SO}_3)_3$ | <u>rhodium (III) sulfite</u> |
| 38. HClO_4 | <u>perchloric acid</u> |
| 39. $\text{Sr}(\text{NO}_3)_2$ | <u>strontium nitrate</u> |
| 40. NO_2 | <u>nitrogen dioxide</u> |
| 41. KH_2PO_4 | <u>potassium dihydrogen phosphate</u> |
| 42. H_2CO_3 | <u>carbonic acid</u> |
| 43. CoCO_3 | <u>cobalt (II) carbonate</u> |
| 44. CS_2 | <u>carbon disulfide</u> |
| 45. AgBr | <u>silver bromide</u> |
| 46. NaOH | <u>sodium hydroxide</u> |
| 47. AuCl_3 | <u>gold (III) chloride</u> |
| 48. $\text{In}_2(\text{CrO}_4)$ | <u>indium(I) chromate</u> |
| 49. Na_2Se | <u>sodium selenide</u> |
| 50. Ra_3N_2 | <u>radium nitride</u> |