

Prep for Basic Chemistry: Competency 7 Practice

What is the name for each of these compounds?

1. HCl **Hydrochloric acid**
2. SeF₆ **Selenium hexafluoride**
3. Si₂Br₆ **Disilicon hexabromide**
4. SCl₄ **Sulfur tetrachloride**
5. B₂Si **Diboron silicide**
6. NF₃ **Nitrogen difluoride**
7. Na₂CO₃ **Sodium carbonate**
8. NaOH **Sodium hydroxide**
9. MgBr₂ **Magnesium bromide**
10. KCl **Potassium chloride**
11. FeCl₂ **Iron (II) chloride**
12. Zn(OH)₂ **Zinc hydroxide**
13. Be₂SO₄ **Beryllium sulfate**
14. Al₂S₃ **Dialuminum trisulfide**
15. Li₃PO₄ **Lithium phosphate**
16. FeCl₃ **Iron (III) chloride**
17. Mg₃P₂ **Trimagnesium diphosphide**
18. CsNH₄CO₃ **Cesium ammonium carbonate**
19. NH₄OH **Ammonium hydroxide**
20. Be(C₂H₃O₂)₂ **Beryllium acetate**
21. HClO **Hypochlorous acid**
22. (NH₄)₂CO₃ **Ammonium carbonate**

What is the formula for each compound?

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|----------------------------------|--|
| 23. dinitrogen heptoxide | <u>N₂O₇</u> |
| 24. dinitrogen trioxide | <u>N₂O₃</u> |
| 25. aluminum oxide | <u>Al₂O₃</u> |
| 26. disulfur trichloride | <u>S₂Cl₃</u> |
| 27. pentaphosphorus hexafluoride | <u>P₅F₆</u> |
| 28. chloric acid | <u>HClO₃</u> |
| 29. chlorous acid | <u>HClO₂</u> |
| 30. perfluoric acid | <u>HFO₄</u> |
| 31. nitric acid | <u>HNO₃</u> |
| 32. phosphoric acid | <u>H₃PO₄</u> |
| 33. acetic acid | <u>HC₂H₃O₂</u> |

Acid, base, oxide, or salt?

- | | |
|---|---------------------|
| 34. H ₂ SO ₄ | <u>acid</u> |
| 35. (NH ₄)OH | <u>base</u> |
| 36. Cs ₂ O | <u>oxide</u> |
| 37. CaS | <u>salt</u> |
| 38. HI | <u>acid</u> |
| 39. KI | <u>salt</u> |
| 40. HC ₂ H ₃ O ₂ | <u>acid</u> |