

Worksheet # C29: Polyatomic Ions To Memorize

1. Use page 210 of the Modern Chemistry book to give the formula (including the charge) for each of the following. [Be very very careful to copy these down right - it's really hard to unlearn something you memorize wrong because you made a mistake early on!]

- _____ 1. chromate
- _____ 2. dichromate
- _____ 3. hydroxide
- _____ 4. cyanide
- _____ 5. sulfate
- _____ 6. phosphate
- _____ 7. permanganate
- _____ 8. peroxide
- _____ 9. carbonate
- _____ 10. acetate*
- _____ 11. ammonium
- _____ 12. nitrate
- _____ 13. chlorate

2. Give the formulas for the ions that have a

a) + 1 charge: _____

b) - 1 charge: _____

c) - 2 charge: _____

d) - 3 charge: _____

* The formula for acetate can be written either $C_2H_3O_2^-$ or CH_3COO^- . The first is the straight formula and the second gives a hint of the actual bonding of the ion. You may use either. Be able to recognize both.