

Naming Compounds

Sept 12, 2022

One More Time: Sig Figs a

1) Determine the number of significant figures in the following:

a) 0.004810

b) 135,010

c) 18.02

d) 1000.

2) Using a calculator, express the answers to the following calculations with the proper number of significant figures:

a) $\frac{15.\text{g}+28.31\text{g}}{35.15\text{mL}}$

b) $\frac{9.2 \times 10^{-4} - 1.13 \times 10^{-5}}{5.51}$

c) $7.21(8.75 + 1.3)$

d) $9.13 + 1.315$

Naming Ionic and Molecular Compounds

3) Name the following compounds.

a) V_2O_5

b) TiO

c) N_2O_4

d) $\text{Ca}_3(\text{PO}_4)_2$

e) BaCl_2

f) PbCrO_4

g) CrO_3

h) NaNO_3

i) CaCO_3

j) $\text{Fe}_2(\text{C}_2\text{O}_4)_2$

k) NaH_2PO_4

Naming Acids

4) Name the following acids.

a) $\text{H}_2\text{C}_2\text{O}_4$

b) HNO_3

c) HNO_2

d) H_3PO_4

e) H_2SO_4

f) HClO_3

g) HF

h) H_2CO_3

i) HIO_3

j) HBrO_2

Naming Polyatomic Ions

a) ClO_4^-

b) HPO_4^{2-}

c) CO_3^{2-}

d) SO_4^{2-}

e) SO_3^{2-}

f) NO_2^-