

General Chemistry
Mr. MacGillivray
Quiz #19:
Empirical and Molecular Formulas

1. Calculate the % composition by mass of Na_3PO_4 . Show all work. Report answers to three significant figures.

% Na = _____ % P = _____ % O = _____

2. Calculate the empirical formula of a compound for which the % composition by mass is 69.9% Fe and 30.1% O. Show all work.

3. Calculate the molecular formula of a compound (molar mass = 150. g/mol) for which the empirical formula is CH_2O .