1. The empirical formula of a compound is found to be P_2O_5 . Experiments show that the molar mass of the compound is 283.9 g/mol. What is the molecular formula of the compound?

2. A compound has the following % composition—76.54 % C, 12.13 % H, and 11.33 % O. If its molar mass is 282.5 g/mol, what is its molecular formula?

3. What is the formula for a hydrate which consists of 90.7 % SrC_2O_4 and 9.30 % H_2O_7

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