Answer on Question #42199, Chemistry, Organic Chemistry

Question:

calculate the empirical formula of a compound whose percentage composition is \div C=21.9% , H=4.6% , Br=73.4% ?

Solution:

The relative numbers of atoms will be: W%(C)/A_r \div W%(H)/ A_r \div W%(Br)/ A_r 21.9/12 \div 4.6/1 \div 73.4/80 1.83 \div 4.6 \div 0.92

Divide by lowest number (0.92): 1.99 ÷ 5 ÷ 1

Therefore simple ratio is: $2 \div 5 \div 1$

The empirical formula of the compound is C_2H_5Br