

Answer on Question#37388 - Chemistry - Inorganic Chemistry

One molecule of propane (C_3H_8) contains 8 atoms of Hydrogen.

Number of hydrogen atoms in 0.266 grams of propane is:

$$N(H) = 8 \cdot (0.266/44) \cdot 6.022 \cdot 10^{23} = 2.912 \cdot 10^{22}$$

Answer: $2.912 \cdot 10^{22}$