Answer on Question#48507 – Chemistry, Physical Chemistry

What is the amount of hydrogen atoms in 0.40 moles of ethanoic acid (CH3COOH)?

Solution:

ν (CH3COOH)=0.4 mol

ν (H) = 4 ν (CH3COOH); ν (H) = 1.6 mol

$\nu = \dfrac{N}{N_A}$; N_A – Avogadro constant;

N(H) = $9.632^{\wedge}10^{23}$

Answer: $9.632^{\wedge}10^{23}$