Related Problem with Solution :

Calculate the total number of electrons present in one mole of methane.

Ans :

One mole of methane (CH_4) has molecules = 6.022×10^{23}
No. of electrons present in one molecule of CH_4 = 6 + 4 = 10
No. of electrons present in 6.022×10^{23} molecules of CH_4 = $6.022 \times 10^{23} \times 10$
= 6.022×10^{24} electrons