## Answer on the question #64105, Chemistry / General Chemistry

## Question:

How many moles of oxygen are 7.58x10<sup>20</sup> molecules

## Solution:

In accordance with Avogadro constant, it has been established by the scientific community that 1 mole of the substance contains  $6.022 \ 10^{23}$  molecules.

This means that for 7.58 10<sup>20</sup> molecules,

$$n = \frac{N}{N_A} = \frac{7.58 \cdot 10^{20}}{6.022 \cdot 10^{23} (mol^{-1})} = 1.26 \cdot 10^{-3} (mol)$$

Answer: 0.00126 mol

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