

27024, Chemistry, Other | Completed

the no: of moles of oxygen in 1L of air which contains 21% of oxygen by volume under standard condition is.

Solution:

The volume of oxygen in 1L of air is 0.21 L. One mole of some gas under standard condition occupy 22,4 L (the Avogadro's low), so in the 0.21 L of oxygen are stored:

$$\frac{0.21}{22.4} = 0.009 \text{ moles .}$$

Answer:

The amount of moles of oxygen is 0.009.