

Answer to Question #58548, Chemistry / Physical Chemistry

Calculate the number of atoms 0.5 mol atoms of nitrogen.

Solution:

$$N = N_a \times n$$

N_a - Avogadro constant,

$$N_a = 6.022140857(74) \times 10^{23} \text{ mol}^{-1}$$

$$N = 6.02 \times 10^{23} \times 0.5 = 3.01 \times 10^{23} \text{ atoms}$$

Answer:

3.01×10^{23} atoms.