Answer on Question #67978, Chemistry, General Chemistry

How many atoms are in 2.4 moles of sulfur?

Solution:

Number of atoms we can calculate, using proportion:

n (S) = $\frac{N}{Na'}$, where n is number of moles; N – number of particles (atoms); Na is Avpgadro's number.

So, number of atoms equals:

N = n(S)·Na = $2.4 \cdot 6.022 \cdot 10^{23} = 14.45 \cdot 10^{23}$ (atoms)

Answer: N = $14.45 \cdot 10^{23}$ atoms.

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