

Answer on Question 84318 in General Chemistry

$$.m(\text{Mo}) = 2.40 \text{ mg} = 2.40 \times 10^{-3} \text{ g}$$

. n atoms=?

Find the amount of substance of Mo

$$. n = \frac{m(\text{Mo})}{Ar(\text{Mo})} = \frac{2.4 \times 10^{-3}}{96} = 2.5 \times 10^{-5}$$

$$. n \text{ atoms} = n \times N_A = 2.5 \times 10^{-5} \times 6 \times 10^{23} = 1.5 \times 10^{19}$$

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