## Answer on Question #72543 - Chemistry - General Chemistry

## Question:

How many grams are contained in a 7.44 mole sample of Ammonium Phosphate { (NH4)3PO4 }?

A. 149.0 g B. 1043.0 g C. 1109.5 g D. 1117.5 g E. None of the Above

## Answer:

The mass of the sample is the product of the number of the moles n and the molar mass M:

$$m = M \cdot n = 149.0867 \left(\frac{g}{mol}\right) \cdot 7.44(mol) = 1109.2 (g)$$

The value C, 1109.5 is very close to the obtained mass of 1109.2 g. Thus, the answer is C.

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