Question #64717, Chemistry / General Chemistry

2 g of anhydrous nitrate produces 1.32 g of gases name the nitrate

Answer:

Me(NO₃)₂ = MeO + 2NO₂ + O₂ We have three moles of gases per 1 mol of nitrate! M(MeO) = x + 16 $m(MeO) = 2.00 \ g - 1.32 \ g = 0.68 \ g$ M(Me(NO₃)₂) = x + 28 + 96 = x + 124 n(Me(NO₃)₂) = n(MeO) $\frac{0.68 \ g}{x + 16} = \frac{2.00 \ g}{x + 124}$ $2.00 \ x + 32 = 0.68 \ x + 84.32$ $1.32 \ x = 52.32$ x = 39.63

Me is Ca. Nitrate is calcium nitrate!

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