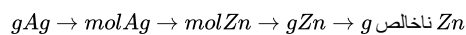
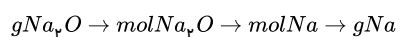


پاسخنامه تشریحی



$$?g Zn_{\text{ناخالص}} = 53,93g Ag \times \frac{1 mol Ag}{108g Ag} \times \frac{1 mol Zn}{2 mol Ag} \times \frac{65g Zn}{1 mol Zn} \times \frac{100g \text{ نمونه ناخالص}}{80g Zn} = 20,28g Zn_{\text{ناخالص}}$$

$$Na_2O = (23 \times 2) + 16 = 62g \cdot mol^{-1}$$



$$?g Na_{\text{ناخالص}} = 12,4g Na_2O \times \frac{1 mol Na_2O}{62g Na_2O} \times \frac{2 mol Na}{1 mol Na_2O} \times \frac{23g Na}{1 mol Na} = 9,2g Na_{\text{خالص}}$$

$$درصد خلوص Na = \frac{\text{جرم Na خالص}}{\text{جرم Na ناخالص}} \times 100 = \frac{9,2}{16,2} \times 100 = 56,79\%$$

$$?g H_2 = 200g Mg_{\text{ناخالص}} \times \frac{90g Mg}{100g Mg_{\text{ناخالص}}} \times \frac{1 mol Mg}{24g Mg} \times \frac{1 mol H_2}{1 mol Mg} \times \frac{2g H_2}{1 mol H_2} = 15g H_2$$

۴ -

$$?g CaC_2_{\text{ناخالص}} = 33,5g C_2H_2 \times \frac{1 mol C_2H_2}{26g C_2H_2} \times \frac{1 mol CaC_2}{1 mol C_2H_2} \times \frac{64g CaC_2}{1 mol CaC_2} \times \frac{100g CaC_2_{\text{ناخالص}}}{84g CaC_2} = 98,6g CaC_2_{\text{ناخالص}}$$

$$?lit H_2 = 54g Al_{\text{ناخالص}} \times \frac{80g Al}{100g Al_{\text{ناخالص}}} \times \frac{1 mol Al}{27g Al} \times \frac{3 mol H_2}{2 mol Al} \times \frac{22,4 lit H_2}{1 mol H_2} = 53,76 lit H_2$$