

1- мәселе

1)

a) $H_2O = 1 \cdot 2 + 16 = 18$

b) $O_2 = 16 \cdot 2 = 32$

c) $KF = 39 + 19 = 58$

d) $S_2Cl_2 = 32 \cdot 2 + 35 \cdot 2 = 134$

2)

a) $Mn(MnO) = 24 + 16 = 40$

b) $Mn(PH_3) = 31 + 1 \cdot 3 = 34$

c) $Mn(H_2(SO_4)_3) = 27 \cdot 2 + (32 + 16 \cdot 4) \cdot 3 = 312$

d) $MnCl$

3) a) $Mn(C_2H_4) = 12 \cdot 2 + 1 \cdot 4 = 28$

$w(C_2) = \frac{Ar(C_2)}{Mr(C_2H_4)} \cdot 100\% = \frac{24}{28} \cdot 100\% = 85\%$

$w(H_4) = \frac{Ar(H_4)}{Mr(C_2H_4)} \cdot 100\% = \frac{4}{28} \cdot 100\% = 14\%$

$w = 85\% + 14\% = 99,5\% \approx 100\%$

b) $Mn(CO) = 12 + 16 = 28$

$w(C) = \frac{Ar(C)}{Mr(CO)} \cdot 100\% = \frac{12}{28} \cdot 100\% = 43\%$

$w(O) = \frac{Ar(O)}{Mr(CO)} \cdot 100\% = \frac{16}{28} \cdot 100\% = 57\%$

29 =

c) $M_r(\text{CaCO}_3) = 40 + 12 + 16 \cdot 3 = 100$

$\omega(\text{Ca}) = \frac{M_r(\text{Ca})}{M_r(\text{CaCO}_3)} \cdot 100\% = \frac{40}{100} \cdot 100\% = 40\%$

$\omega(\text{C}) = \frac{M_r(\text{C})}{M_r(\text{CaCO}_3)} \cdot 100\% = \frac{12}{100} \cdot 100\% = 12\%$

$\omega(\text{O}_3) = \frac{M_r(\text{O}_3)}{M_r(\text{CaCO}_3)} \cdot 100\% = \frac{48}{100} \cdot 100\% = 48\%$

$\omega = 40\% + 12\% + 48\% = 100\%$

d) $M_r(\text{C}_2\text{H}_4\text{O}) = 12 \cdot 2 + 4 \cdot 4 + 16 = 44$

$\omega(\text{C}_2) = \frac{M_r(\text{C}_2)}{M_r(\text{C}_2\text{H}_4\text{O})} \cdot 100\% = \frac{24}{44} \cdot 100\% = 55\%$

$\omega(\text{H}_4) = \frac{M_r(\text{H}_4)}{M_r(\text{C}_2\text{H}_4\text{O})} \cdot 100\% = \frac{4}{44} \cdot 100\% = 9\%$

$\omega(\text{O}) = \frac{M_r(\text{O})}{M_r(\text{C}_2\text{H}_4\text{O})} \cdot 100\% = \frac{16}{44} \cdot 100\% = 36\%$

$\omega = 55\% + 9\% + 36\% = 100\%$

Жай зат: S_8 ; He

Күрделі зат: H_2O_2 ; PH_3 .

2-тапсырма

1) H_2O ; H_2O_2 ; CO ; Li_2O ; P_2O_5 .

2) NaCl - натрий хлориді; MgSO_4 - Mg ; K_3PO_4 - калий фосфаты; CaCO_3 - кальций карбонаты; Al_2S_3 - алюминий күкігі.

3-тапсырма

1) Негізгі оксидтер: K_2O ; CO_2 ; CaO .

2) $\text{P}_2\text{O}_5 = \text{P}_2\text{O}_5$; K_2O ; K_2O ; K_2O ; $\text{SO}_3 = \text{SO}_3$

Қышқылданған оксидтер: P_2O_5 ; $(\text{K}_2\text{O})_2\text{SO}_3$

$\text{CO}_2 = \text{CaCO}_3$; $\text{CaOH} = \text{CaOH}$

4-тапсырма